Radiophone

Helsinki RTM 127

RADIOPHONE GSM

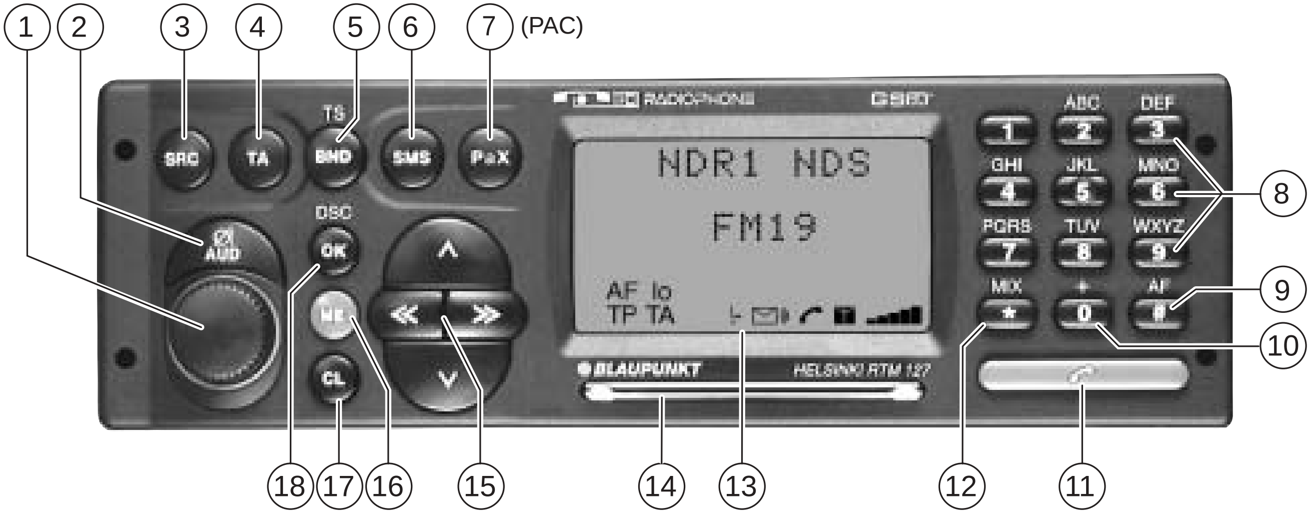
Operating instructions

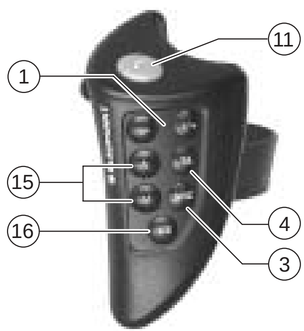


BLAUPUNKT

Bosch Gruppe

Erklärung der Positions-Nummern siehe Kurzanleitung / Refer to the Quick Reference for an explanation of the operating elements





Fernbedienung RCT 07 (Option)
Remote control RCT 07 (optional)

Contents (Radio, CD changer - optional)

Contents (Radio, CD changer - optional)

Contents (Telephone)

ENGLISH

Radio

Contents (Telephone)

Important information

Safety standards

The mobile telephone has been manufactured in accordance with all of the applicable radio frequency (RF) safety standards and recommendations determined by the government offices and organisations responsible (e.g. the VDE standard DIN-0848).

General information

The telephone function of your Radiophone is based on the GSM radio telephone standard. This standard was developed for use in Europe and many other countries and has now spread throughout the world.
Using the mobile Radiophone, you can make the same telephone calls as you can with a cellular phone.
Important: You must be located in an area serviced by the GSM radio network and have the access privileges provided by a valid SIM card. This SIM card must be inserted into the unit (refer to the section on ”KeyCard and SIM card” if necessary).

Effects of RF (radio frequency) energy

Your Radiophone is both a transmitter and a receiver. It generates minimum amounts of energy in the RF range. While it is in use, the GSM system keeps a constant check on both the frequency and the power.
Warnings that using mobile telephones may be hazardous to your health have recently been a topic of public discussion. For years now, research efforts have concentrated on what effects RF energy may have on your health. Scientists have also begun researching the latest radio technologies such as GSM.
According to research results and by complying with the corresponding safety standards, it is safe to say that GSM equipment can be used without reservations with respect to its biological effects.
If the Radiophone has been installed properly in your vehicle, using it is even safer than using a portable cellular phone.
If you should still be concerned about the effects of RF energy, there is a lot you can do personally to ensure that you are exposed to a minimum of these radio waves. Of course, it will help to reduce your call time to a minimum but it is especially important to heed the following tips on using this equipment.

Safety information

⚠ **Traffic safety**

Traffic safety always has the highest priority. As the driver of a motor vehicle, it is your responsibility to pay attention to the traffic situation at all times.
Never use your car radio in a way that could distract you.
Please keep in mind that you travel a distance of 14 m per second at a speed of only 50 km/h.
Should the traffic situation become particularly demanding, we advise you not to use this equipment.
Always make sure that you are still able to hear any warning signals coming from outside of your vehicle, such as police or fire engine sirens, so that you can react accordingly.
Consequently, you should always select a moderate volume for playing your car audio equipment while you are driving.

⚠ **Using the telephone while driving**

Please observe all laws and regulations regarding the use of mobile telephones in motor vehicles.

- Concentrate fully on your driving.

- Stop at a safe place before using the telephone.
- If otherwise unavoidable:
  Use only hands-free operation if you have to use the telephone while you are driving.

Traffic safety always has the highest priority.

Using the telephone in critical areas

Always switch off the mobile telephone in areas where it is forbidden to use a mobile phone or if this equipment could cause electromagnetic interference or otherwise dangerous situations.

Using the telephone can result in interference with the correct functioning of medical equipment which is not sufficiently shielded, particularly near the antenna. Please consult a doctor or the manufacturer of the medical device if you have any questions. Other electronic equipment can also be affected by electromagnetic interference.

If you are in an area where there is danger of explosion, e.g. filling stations, chemical factories or places where blasting work is being done, switch your telephone off.

To switch off the telephone:

- Press for approx. 2 seconds.

”TELEPHONE OFF” will appear in the display.

Reactivate the telephone:

- Press briefly.

Emergency calls

As with every other mobile telephone, the Radiophone operates using a combination of mobile radio and cross-country networks, radio signals and functions programmed by the user. As a result, there is no guarantee that your call will always go through. Never depend exclusively on a mobile telephone or similar equipment under life-threatening circumstances (e.g. in medical emergencies).
The telephone interface of the Radiophone is only able to make and receive calls when it is activated, located in an area served by the radio network and when the signal is strong enough.
Emergency calls may not be possible on all mobile telephone networks or only if certain network services and/or certain performance features are active. Contact the local network operators for more detailed information.
Under certain circumstances, some networks require that a valid SIM card is inserted into the unit.
In the event that certain functions (incoming call lock, call number lock, user group, AOC (advice of charge), system lock, keypad lock, etc.) are activated, it may be necessary to deactivate them before placing an emergency call.
Please read this instruction manual for further information and consult your local network operator.
When placing an emergency call, be sure to supply all the necessary information as accurately as possible. Remember that your mobile telephone may be the only means of communication at the scene of an accident. Do not hang up until you are told to do so.
Also read the information in the section on ”Telephone operation – GSM emergency calls”.

Installation

Have the Radiophone installed in your vehicle and serviced by a trained service technician only. Faulty installation or servicing can be dangerous and will result in the expiry of your guarantee.
If the vehicle is not adequately shielded against RF signals, electronic fuel injection systems, electronic ABS systems, electron-

ic cruise control systems or other electronic equipment may experience malfunctions.
This equipment must not be operated without a suitable GSM or combination antenna mounted on the outside of the vehicle. The equipment including the GSM or combination antenna must be installed by an authorised Bosch service centre only.
To ensure trouble-free operation, the positive power supply line must be connected via the ignition and the permanent +12 V lead.
Do not ground the speaker outputs!

⚠ **Avoid touching the display!**
In extreme cases this could result in an accumulation of static electricity and destroy the display.

Notes on connecting a CD changer, amplifier, voice control system or infrared remote control unit:

In rare cases, you may experience problems with your mobile telephone after connecting accessory equipment, such as CD changers, amplifiers, a voice control system or an infrared remote control unit, if the installation conditions are unfavourable. This can result in interference noise, a deterioration in voice quality or abrupt disconnections. In this case, please recheck the wiring or contact an authorised service centre.

Accessories

Use Blaupunkt-approved accessories and spare parts only.
You can use the following Blaupunkt products with this equipment:

Changer:
CDC A 06 or A 072 (directly)

Remote control:
Using the infrared remote control RCT 07 7 607 570 510 you can conveniently control all of the most important functions of your Radiophone from the steering wheel.
The operating functions are described in the Quick References.



Handset (telephone receiver)
Using the Blaupunkt handset 7 607 570 512 it is possible to place telephone calls with or without the hands-free function.
The system will switch automatically from hands-free to handset operation when the handset is removed from the cradle.

⚠ There is a relatively strong magnet in the handset.
Keep everything which could react adversely to magnetic fields well away from the handset. This includes diskettes, check cards, etc. Important data may be lost.

Amplifier
All Blaupunkt amplifiers.

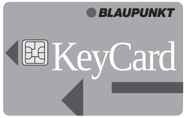
Voice control system
(Available in German only)

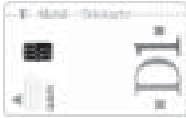
Using the VOCS 08 7 607 570 509, you can control the most important system functions by speaking certain commands aloud in German.
Because the motorist is subjected to a minimum amount of distraction when operating the equipment, using a voice control system makes an important contribution to road safety.

ENGLSH

Radio

KeyCard and SIM card





Basic information

One KeyCard is included with the Radiophone.
The car radio can also be operated with a second ”trained” KeyCard or with one of up to 30 “trainable” SIM cards.
Using the KeyCard it is possible to activate the following operating modes:
Radio, CD changer (optional), AUX, telephone emergency call.
Using the SIM card it is possible to activate all operating modes. You can use either regular SIM cards or miniature SIM cards with an adapter card.
The SIM card is equipped with the same anti-theft functions as the KeyCard.
If necessary (in the event of loss or damage), it is possible to purchase a KeyCard or SIM card from an authorised dealer.

Second KeyCard/SIM card

If you use a second KeyCard or SIM card, this card will copy the settings programmed on the original card.
It is also possible to store the following functions individually:
Station preset buttons, bass, treble, balance and fader settings, Loudness, TA (traffic announcement volume), VOLUME FIX.
For two KeyCards and the first two SIM cards, the settings programmed last such as waveband, bass/treble, fader/balance, radio station, station preset buttons, VOLUME FIX will remain stored.
When you insert your KeyCard or one of the first two SIM cards, you will find that the equipment switches onto the basic settings you have already programmed.

Invalid KeyCards

If you insert a KeyCard which does not belong to this equipment into the unit, ”KEYCARD ERROR” will appear in the display.
Do not attempt to operate the equipment.
The unit will switch off after about 8 seconds.
If an invalid card is inserted four times, there will be a waiting period of one hour.
If you should insert a different type of card (e.g. a telephone card or credit card), ”CHECK KEYCARD” will appear for approx. 2 seconds in the display.
Remove the wrong card and replace it with a valid KeyCard or SIM card.

Starting up the Radiophone

- Switch the unit on (press ①).

⚠ With the Card tongue protruding out of the unit, insert the KeyCard included with the Radiophone into the slot with the contact surface facing up. The Radiophone is now ready for operation.
Do not try to insert the KeyCard when the tongue is retracted as this may damage the KeyCard mechanism.

Using the Radiophone after the power has been disconnected

If the Radiophone is disconnected from the battery for any reason (e.g. during car repair work) and re-connected again, it will be necessary to use a trained KeyCard or the Master SIM card to restart and reactivate the other trained SIM cards.

Select the language for the display

At the factory the texts for the display are set to English.
You can display the texts in other languages if you wish.

- Press **DSC/OK**. Two menu items will appear in the display: Setup and Radio.
- Confirm Setup by pressing **DSC/OK**.
- Press ∧/∨ until ”LANGUAGE” appears in the display.
- Press **DSC/OK** and ∧/∨ to select the language.
- Press **DSC/OK** once and **CL** twice one after the other.

Remove the KeyCard/SIM card

⚠ **Never forcibly pull out the card! You may destroy it.**

- First push the card in gently towards the unit.

The KeyCard/SIM card will eject slightly so that you can remove it.

- Remove the card.

When you remove the card for the first time, ”LEARN CARD” will appear in the display. Now you can train additional cards (refer to ”Train SIM cards”).

After this process has ended, the Radiophone will switch off when the card has been removed.

Train KeyCard/SIM cards

In the initial programming process you can easily train the second KeyCard and up to 30 SIM cards.
In order to do this the Radiophone must be switched on and the original KeyCard inserted.

- Remove the original KeyCard and insert the first SIM card within 15 seconds.

“NAME?” will appear in the display.

If you wish, you can now enter a name of up to 8 characters. If necessary, refer to “How to enter a name/text”.

If you want to skip this function, or after you have entered the name,

- Press **OK**.

The first SIM card has been programmed. ”TERMINATE? PRESS OK” will appear in the display. Now you can program additional cards.

To finish the programming process:

- Press **OK**.

The SIM card programmed first takes on a special function as the Master SIM card. All of the other SIM cards can be trained only with the Master SIM card and the KeyCard. There are two basic ways to train other SIM cards:

a) Train or delete KeyCard/SIM card using DSC

DSC – LEARN CARD

One KeyCard or up to 30 SIM cards can be trained or replaced as additional cards.

- Insert the first KeyCard (included with the Radiophone) into the unit and switch the unit on.
- Press **DSC/OK**. Two menu items will appear in the display: Setup and Radio.
- Confirm Setup by pressing **OK**.
- Press ∧/∨ until the arrow in the display marks ”LEARN CARD”.
- Press **DSC/OK** briefly.

”CHANGE CARD” will appear in the display.

- Remove the first KeyCard and insert the new card (KeyCard or SIM card).

After insertion of a SIM card only: the display shows “NAME?”.
If you wish, you can now enter a name of up to 8 characters.

If necessary, refer to “How to enter a name/text “.

- Press **DSC/OK**.
- Enter the PIN code and press **DSC/OK**.

After “CODE OK”, the display shows e.g. “SIM-CARD 23 ACCEPTED” (i.e. this is the 23rd SIM card you have trained).

The Radiophone can now be operated using the new cards.

If you attempt to program a third KeyCard, the KeyCard which was not part of the programming process will automatically become invalid.

If 30 SIM cards have been programmed, it will be necessary to delete old access authorisations before new cards can be trained.

b) Train new cards after removing the KeyCard or Master SIM card

If this function has been activated in the DSC learn mode, it will be possible to train additional SIM cards each time the KeyCard or Master SIM card is removed. This function is practical if you want to train several cards one after the other (fleet management).

c) Delete SIM card authorisations

The authorisation for SIM cards can be deleted using the CARD LIST in the DSC menu. The Master SIM card can be deleted with a KeyCard only.

DSC learn mode

With this function you can select whether you want to train additional SIM cards using the DSC menu only or each time after removing the KeyCard or the Master SIM card as well.
For operating instructions refer to ”Programming with DSC – LEARN MODE”.

Displaying the radio pass data

Using the KeyCard supplied with your set you can have the radio pass data such as the model name, product number (7 6..) and serial number indicated in the display.
Please refer to the section on “ Programming with DSC – READ KEYCARD”.

Optical warning of anti-theft protection

Flashing KeyCard tongue

When the vehicle has been parked and the KeyCard or SIM card removed, the KeyCard tongue can be switched to flash to provide additional anti-theft protection.
For this function to operate properly it is necessary for the positive power supply line and the permanent +12 V lead to be connected as described in the installation instructions. Be sure that “KEYCARD LED ON” has been activated in the DSC mode.
If necessary, refer to the section on “Programming with DSC – KEYCARD LED”.

Switch off the flashing light

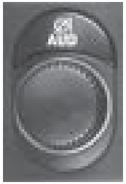
The flashing light can be switched off by pushing in the KeyCard tongue gently until it locks.
If you would like to deactivate the flashing tongue altogether, select the “KEYCARD LED OFF” item in the DSC menu:

Care of your KeyCard/SIM card

In order to ensure that the card always functions correctly, the contacts must be free of any foreign particles. Avoid touching the contacts with your fingers.
Do not leave the cards in direct sunlight.
If necessary, clean the card contacts using a cotton swab dipped in rubbing alcohol.

! Never bend a KeyCard or a SIM card. You may destroy it.

① **On/off**
Volume
To switch the Radiophone on, press the knob (volume control).
A valid KeyCard or SIM card must in the unit already or inserted within the next 15 seconds.



Switch the unit on/off with the KeyCard:
If the equipment has been switched on by pressing ①, then it can be switched off and on again with the KeyCard or SIM card.
This will not function properly unless “MENU” has been activated in the “LEARN MODE” in the DSC menu.

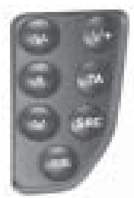
Note:
Be sure to read the information in the section on ”KeyCard/SIM card anti-theft protection system”.

Switch the unit on/off via the ignition:
If the equipment has been connected properly, it can be switched on and off with the vehicle ignition.
When the ignition has been switched off, the unit will emit a double beep to remind you to remove the KeyCard/SIM card before leaving your vehicle.
If you switch off the ignition during a telephone call, the Radiophone will remain switched on until you have completed the call.

Operation in combination with an ignition timer
If the ignition timer has been activated in the DSC mode, the Radiophone will switch off as programmed after the ignition is switched off (refer to the section on ”Programming with DSC – IGNITION TIMER”.

Switch the radio on when the ignition is switched off
When the ignition is switched off (card is inserted) the equipment will continue to function as follows:
After you hear the double beep, press the knob. The equipment will switch back on. After one hour’s playing time, the Radiophone will switch off automatically to prevent the car battery from going dead.

Alter the volume
Turn the knob to alter the volume. The setting selected will appear in the display.
When the Radiophone is switched on, it will play at a preset volume (VOLUME FIX).
VOLUME FIX can be altered as desired (refer to ”Programming with DSC – VOLUME FIX”).
The volume can also be altered using the remote control (optional) by pressing **V-** / **V+**.



② **ØI** / **AUD**
Press **AUD** once:
Alter treble and bass settings using the rocker switch.

- ⋀ Treble +
- ⋁ Treble –
- << Bass –
- >> Bass +

Press **AUD** twice:
Alter balance (left/right) and fader (front/rear) settings.

- ⋀ Fader front
- ⋁ Fader rear
- << Balance left
- >> Balance right

The settings selected will be indicated in the display. The last setting made will be stored automatically.
Switch off AUD: Press **AUD** a third time.
If no changes are made within 4 seconds, the AUD setting will end automatically.

Switch Loudness on/off:
Press **AUD** for approx. 1 second. (You will hear a beep.)
The current setting will appear briefly in the display (ON/OFF).
For more detailed information refer to ”Programming with DSC – LOUDNESS”.

③ **SRC** (**S**ou**r**ce)
You can switch between the operating modes for the radio and CD changer (optional) or AUX.
Switch back from the telephone menu to the audio source last heard.
Note: This will not function while you are using the telephone or when you are trying to place a call.

④ **TA** (**T**raffic **A**nnouncement = priority for traffic messages)
If ”TA” appears in the display, you will be able to tune into radio stations which broadcast traffic information only.
Switch priority on/off: press **TA**.

⑤ **TS / BND**
Switch between the memory levels/ wavebands FM, TS (Travelstore), MW and LW.

Additional Travelstore function
Store the nine radio stations with the strongest reception signals using **Travelstore**:
Press **BND** until you hear a beep or until ”TRAVELSTORE” appears in the display.

⑥ **SMS**
It is possible to read any SMS messages as they are received, regardless of the operating mode selected.

⑦ **PaX** oder **PAC** (Personal Access)
Use this button to directly access a certain function which has been programmed previously.

⑧ **Selection buttons**

Radio mode

Enter the frequency directly
You can enter an FM station frequency directly using the selection buttons: First press ”0” and then enter the desired frequency beginning with the first digit. It is possible to enter frequencies ranging between 87.5 and 108 only. It is not necessary to enter the decimal point. Press **CL** to cancel the entry. Press **OK** to confirm your entry. Once you have entered all of the digits, your entry will be confirmed automatically.

Store radio stations
You can use the buttons to store the following number of radio stations for the different wavebands:

FM	19
TS (FM-Travelstore)	9
MW	9
LW	9

To store – In the radio operating mode, press the station button until you hear a beep. If you want to store the radio station on a two-digit preset, press ”1” briefly and then press the second button within two seconds and hold it down until you hear a beep.

Recall stored radio stations – Select the desired waveband (select ”FM” or ”TS” in the FM range) and press the corresponding button.
Activate the presets from 10 to 19 by pressing ”1” briefly first and then pressing the second button within two seconds.

CD changer mode (optional)

CDs 1 to 10 can be selected directly (0 = CD 10).

⑨ **AF / #**
Alternative **F**requency for RDS operation: When ”AF” appears in the display the radio will automatically use RDS to find the best reception frequency for the program you are listening to.
Switch AF on/off: Press **AF** briefly.

Switch the regional function on/off: Press **AF** for approx. 2 seconds (beep), ”REGIONAL ON” or ”REGIONAL OFF” will appear briefly in the display.
When the regional function is switched on, ”REG” will appear in the display on the right.

⑩ **+ / 0**
Press this button before you enter a radio station frequency directly.

⑫ **MIX / ⁎**

Radio operation

Switch search sensitivity:
Press button briefly.
If “lo” is highlighted, the search function will tune into strong, local stations only (normal sensitivity).
If “lo” does not light up, the search function will also tune into weaker, more distant stations (high sensitivity).

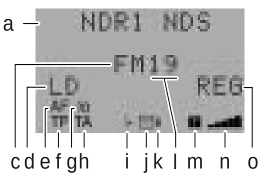
CD changer operation (optional)

MIX CD
The tracks of a CD will be played back in random order.
The following CDs will also be selected at random.

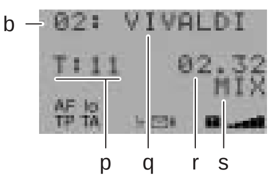
MIX OFF
The MIX function is switched off.
Press **MIX** until the desired function appears in the display.

⑬ Display

Radio operation



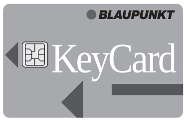
Changer operation (optional)



a) NDR1 NDS - Station name
b) CD 02 - CD number
c) FM - Radio waveband
d) LD - Loudness switched on
e) AF - Alternative Frequency for RDS
f) TP - Radio station broadcasting traffic information (is currently being received)
g) lo - Search sensitivity
h) TA - Traffic announcement priority
i) - Call forwarding is activated
j) - Indicates an SMS message
k) - Also appears to indicate a special SMS message
l) 19/T9 - Station presets (1 to 19)/ Travelstore (1 to 9)
m) - Connection to GSM radio network
n) - GSM signal strength display
o) REG - Regional function switched on
p) T: 11 - CD track number
q) VIVALDI - CD name
r) 02 . 32 - CD time (elapsed playback time)
s) MIX - CD track playback in random order

⑭ Anti-theft card protection system

In order to operate the audio equipment it is necessary to first insert the KeyCard included with the unit or a KeyCard you have trained accordingly or a programmed SIM card.



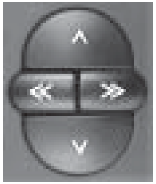


Please read the information in the section on ”KeyCards and SIM cards” carefully.

Flashing card tongue
If the radio has been switched off and the KeyCard or SIM card removed, the card tongue will flash as additional theft protection if the corresponding setting has been activated.
For more detailed information, please refer to ”Programming with DSC”.
It is possible to switch off the flashing light by pressing the card tongue in gently until it locks into place.

(15) Rocker switch

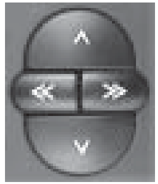
Radio operation



∧ / ∨ **Search**
∧ Up
∨ Down
<< / >> Up or down in increments (for FM only when AF is switched off)

For FM only:
<< / >> Scroll through the station broadcasting network when AF is switched on e.g. NDR 1, 2, 3, 4, N-JOY.

CD changer operation (optional)



Select CD

∧ Up
∨ Down

Select track

>> **Up:** Press briefly.
CUE - fast forward (audible): Hold button pressed down.

<< **Down:** Press two or more times one after the other.
Restart the same track: Press once briefly.
REVIEW - fast reverse (audible): Hold button pressed down.

Using the remote control you can select tracks up or down by pressing ∧ / ∨.

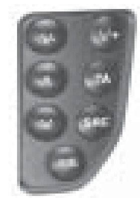
Additional rocker switch functions:
Additional settings possible with
AUD (2)
DSC mode (18)
The corresponding function must be activated.

(16) ME

Unit:

You can have a list of the stored radio stations with their corresponding preset buttons displayed.
During CD changer operation, a list of the CDs in the magazine will be displayed.
Press ∧ / ∨ to select the radio station/ CD and press **OK** to confirm your selection.

Remote control:



During radio operation, the **ME** button has the same function as on the unit.
Press ∧ / ∨ to select the radio station/ CD and press **ME** to confirm your selection.

⑰ **CL** (**CL**EAR)
Press this button to quit the currently active menu item in the DSC mode. Any changes made will not be stored. Press **CL** again to quit the DSC mode.

Cancels the direct entry of radio frequencies.

⑱ **DSC / OK**
DSC (**D**irect **S**oftware **C**ontrol)
Use DSC to adjust the programmable basic settings.

OK
Press to store the altered settings.

Activate DSC: Press the button briefly.
Select function: Press ⋀ / ⋁.
Display setting adjustments: Press **DSC/OK**.
Alter settings: Press **<< / >>**.
Store: Press **OK**.
Quit DSC: Press **CL**.
If you quit DSC by pressing **CL** before you press **OK**, any changes made to the settings will not be stored.
For more information refer to ”Programming with DSC”.

Audio mode

(Radio, CD changer (optional), auxiliary source)

In the audio mode, press **SRC** to switch between radio and CD changer (optional) or an auxiliary source.
When in telephone mode, press **SRC** to switch back to the audio source used last.
Telephone operation has priority. As a result, you cannot switch to audio mode if you are talking on the telephone or trying to place a call.

- Press **SRC** repeatedly until the functions of the audio source you wish to listen to appear in the display.

If you have inserted a magazine containing no CDs, the display shows “NO CD”.
An auxiliary source cannot be selected unless a Blaupunkt changer has been connected to the system. ”AUXILIARY SOURCE ON” must be set in the DSC menu.

Radio operation with RDS (Radio Data System)

The **R**adio **D**ata **S**ystem offers you added convenience when listening to FM radio stations.
More and more radio stations have begun to broadcast RDS information along with their regular programs.
As soon as a program has been identified, the station name including a regional identifier, if applicable, will appear in the display, for example, NDR1 NDS (regional program in Lower Saxony, Germany).
When RDS is activated, the station preset buttons become program buttons. You now know exactly which program you have tuned into, making it easy to find the desired station quickly.
RDS also offers other advantages:

AF - Alternative Frequency

The AF (**A**lternative **F**requency) function makes sure that the radio always automatically tunes into the strongest frequency of the program currently selected.
If this function has been activated "AF" will appear in the display.

In order to switch this function on or off,

- press **AF/#** briefly.

While searching for the strongest reception signal, the radio may switch to mute briefly.
If "SEARCH" appears in the display when the radio is switched or one of the stored frequencies recalled, the unit is automatically searching for an alternative frequency.
"SEARCH" will disappear from the display when the alternative frequency has been found or after the frequency band has run through completely.
If the reception quality of the selected program becomes poor:

- Tune into a different station.

REG - regional program

Certain radio programs are split up at times into regional programs offering local information. The 1st program broadcast by NDR, for example, offers programs with different contents in the northern states of Germany including Schleswig-Holstein, Hamburg and Lower Saxony at certain times of the day.
If you are listening to one regional program and wish to continue doing so, switch REGIONAL ON by

- pressing **AF/#** for approx. 1 second until "REGIONAL ON" appears in the first line.

When the regional function has been switched on "REG" will appear in the display.
If you leave the service area of the regional program you are currently tuned into, or if you would like to take full advantage of RDS service, switch to "REGIONAL OFF".

- Press **AF/#** for approx. 1 second until "REGIONAL OFF" appears.

Select a waveband

You can select between the following wavebands:

FM	87.5 - 108 MHz
MW	531 - 1602 kHz
LW	153 - 279 kHz

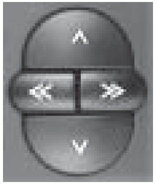
- Press **BND** until the desired waveband appears in the display.

Station tuning

Search ∧/∨

- Press ∧/∨; the car radio will automatically search for the next station.

If you hold down ∧/∨ (also applies to remote control operation), search will accelerate in the upwards or downwards direction.



Search
^ Up
v Down
<< / >> Up/Down in increments (for FM only when AF is switched off)

Manual tuning with << / >>

You can also tune in a station manually.

Important:
AF must be switched off (i.e. the ”AF” or ”REG” symbol does not light up in the display).

If necessary, deactivate this function:

- Press **AF/#**.

Manual tuning:

- Press **<< / >>**; the frequency will change in degrees in the downwards or upwards direction.

If you hold down the right or left part of the rocker switch, the frequency scan will accelerate in the corresponding direction.

Enter the frequency directly

For FM or FMT, it is possible to enter the station frequency directly.

Start your entry

- by pressing **0**.
- Then enter the frequency, beginning with the first digit. You need not enter a decimal point.

Press **CL** to cancel this process or **OK** to confirm your entry.

Scroll through the broadcasting networks (FM only)

You can use the **<< / >>** buttons to tune into stations in your reception area.
If it is possible to receive several programs in the same broadcasting network, you can scroll through them in the forwards direction by pressing **>>**, or backwards using the **<<** button, e.g. NDR 1, 2, 3, 4, N-JOY.
Important: You must have tuned into these stations at least once previously and “AF” must be active (lights up in the display).

Start Travelstore, for example:

- Press **BND** for 2 seconds; the system will start to run through the frequency band.

If “AF” does not light up,

- press **AF/#**.

This fulfils the requirements for selecting stations with **<< / >>**.

Store radio stations

You can store the following number of radio stations for the different wavebands:

FM	19
TS (FM-Travelstore)	9
MW	9
LW	9

- Use **BND** to select the desired waveband.
- Select a radio station using the rocker switch (automatically with ∧/∨ or manually with **<< / >>**).
- Press the desired station preset for approx. 1 second until you hear a beep.

If you want to store the radio station on a two-digit preset

- press ”1” briefly and then press the second button within two seconds and hold it down until you hear a beep.

You have now stored the radio station.
The station preset will appear in the display.

Note:
If you tune into a station which has already been stored before, then the corresponding preset position and memory bank will flash

briefly in the display if you are using the same memory bank.

Automatically store the stations with the strongest reception using Travelstore

You can automatically store the nine most powerful FM stations in your current reception area in the “FMT” memory bank, sorted according to their signal strength. This function is particularly convenient during longer trips. This will have no effect on the radio stations stored in the FM, MW or LW memory banks.

- Press **BND/TS** for 2 seconds.

“TRAVELSTORE” will flash in the display.

The nine strongest FM stations will be automatically stored on the “FMT” (Travelstore) memory bank.
When this process has been completed, the radio will play the station stored on preset button **1**, which is the station with the strongest reception.
If desired, stations can also be stored manually on the Travelstore memory bank (refer to “Store radio stations”).

Recall stored radio stations

a) You can recall any stored radio station at the touch of a button.

- Press **BND/TS** repeatedly until the desired waveband appears in the display.
- Press the corresponding preset button briefly to recall the station.

If you wish to recall a station stored on a two-digit preset (e.g. preset 19) first press **1** and then **9** within the next 2 seconds.

b) You can select a radio station from the radio station list provided for each waveband:

- Press **BND/TS** to select the waveband (FM, FMT, MW, LW).
- Press **ME**.
- Press ∧/∨ to select the desired radio station.
- Press **OK** on the operating panel or **ME** on the remote control unit.

The radio station you have selected will begin to play.

Alter search sensitivity

You can alter the automatic search sensitivity.
If “lo” is displayed, the radio will only pick up strong, local stations.
If “lo” is switched off, the radio will also pick up weaker, more distant stations.

To switch the search sensitivity:

- Press ✱.

The sensitivity level can be selected separately for each memory bank (refer to the section on ”Programming with DSC – DX / LO-LEVEL”).

Switch from stereo to mono (FM only)

Every time the radio is switched on, stereo playback will be activated automatically.
The unit will gradually switch to mono if the reception quality deteriorates beyond a certain point.

Radiotext

This is an RDS function which transmits text from the radio station selected.
Depending on the radio station, these texts will vary in content, e.g. short news reports, program information, advertising.
For further information, refer to “Programming with DSC – Radio”.

The abbreviation “EON” stands for Enhanced Other Networks which means that information is exchanged between the radio stations belonging to the same broadcasting network.
Many FM broadcasters provide traffic messages for their service area at regular intervals.
All traffic program stations transmit a special carrier signal along with their programs, which is decoded by your car radio. If this signal is identified, “TP” will appear in the display (**T**raffic **P**rogram).
In addition to these, there are also stations which do not actually transmit traffic programs themselves, but by using RDS-EON it is possible to receive the traffic messages broadcast by another traffic program station in the same radio network.
If you wish to have the priority for traffic announcements activated while listening to one of these stations (e.g. NDR 3), “TA” must appear in the display.
If a traffic announcement is broadcast, the radio will automatically switch to the linked traffic program station (in this case, NDR 2) for the duration of the message and return to the original program (NDR 3) afterwards.

Switch traffic announcement priority on/off

If the priority for traffic announcement programs is activated, “TA” will light up in the display.
To switch the priority on or off:

- Press **TA**.

If you press **TA** while a message is being broadcast, the message will be interrupted for all operating modes for the duration of this message only.
The unit will then switch back to its previous status. The priority for all other traffic messages will remain active.
Please note that several buttons have no function during traffic announcements.

Adjust the volume for traffic announcements and the beep tone

Although this volume was preset at the factory, you can alter it using the DSC function (see “Programming with DSC – TA VOLUME”).

Beep tone

When a traffic program station is activated (”TA” in the display), you will hear a warning beep approx. 30 seconds after you leave the reception area of the traffic program station you are currently tuned into.

You will also hear this warning beep if you press a station preset button for a radio station which does not broadcast the TP signal.

Switch off the warning beep

a) Tune into another station providing traffic information:

- Press the rocker switch or
- press a preset button for a radio station which has a traffic program station allocated to it.

or

b) Switch off the priority for traffic announcements:

- Press **TA**.
  "TA" will disappear from the display.

Automatic search start

(CD changer operation)

If you leave the reception area of the current traffic program station while listening to a CD, the system
will automatically start searching for a new TA program.

You can use this equipment to conveniently play back CDs with one of the following Blaupunkt CD changers: CDC A06 or A 072 (directly) or CDC A 05 / CDC F 05 / A 071 (with an adapter).
The changer is not included with this equipment and can be purchased separately at a retail outlet.

⚠ Use only standard circular CDs measuring 12 cm in diameter!
CDs measuring 8 cm in diameter or CDs in different shapes such as a butterfly or beer mug are not suitable for playback using this equipment.
This may result in the destruction of the CD or the CD drive.
We assume no liability for damage to the equipment caused by playing unsuitable CDs.

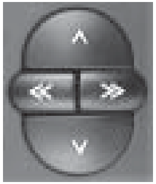
Switch CD changer operation on

A magazine containing at least one CD must be inserted.
Use **SRC** to switch the audio source:

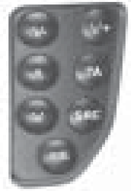
- Press **SRC** until the changer functions appear in the display.



Select the CD and the track



Remote control



Select a CD

∧ **up**

∨ **down**

Enter the number of the CD you wish to select directly using the numbers keys.

Display the CD list by pressing **ME**, make your selection with ∧/∨ and press **OK** to confirm.

Using the remote control select a CD by pressing **ME**, press ∧/∨ to select a CD and **ME** to confirm.

Selecting a track
is also possible using the remote control

» **up:** press briefly
CUE - fast forward (audible): hold pressed down

« **down:** press briefly twice or repeatedly
Restart current track: press briefly.
REVIEW - fast reverse (audible): hold pressed down

To select tracks up or down with the remote control unit, press ∧/∨.

Enter CD names

You can enter names for up to 99 CDs.

If you insert a CD, its name will appear in the display (e.g. VIVALDI) provided that you have entered a name for it in the DSC menu – Radio under Disc naming.

To start your entry:

- Press **DSC/OK**. Two menu items will appear in the display: Setup and Radio.
- Confirm Radio by pressing **OK**.
- Press ∧/∨ until the arrow in the display marks ”Disk Naming”.
- Press **OK**. “Change name” or “Clear name” will appear in the display.
- Press ∧/∨ until the arrow marks “Change name”.
- Press **OK**.
- Press ∧/∨ to select the CD and press **OK**.

The first input field will start flashing.

- Now use the numbers keys to enter the name.

You can enter up to 7 characters.

To complete your entry:

- Press **OK** to save your entry.

If you want to name another CD:

- Press ∧/∨ to select another CD, press **OK** to confirm your selection and proceed as described above.

If you do not want to name another CD:

- Press **SRC** to quit the DSC menu.

Clear

You can delete individual characters.

- Press **<< / >>** to select the character you want to delete (will flash).
- Press **CL** briefly.

If you press **CL** for longer than 1 second, all of the characters will be deleted.

Clear CD name

If you want to clear the name stored for one of the CDs in the magazine, select the “Disk Naming” display mode in the DSC menu – Radio.

- Press **DSC/OK**. Two menu items will appear in the display: Setup and Radio.
- Confirm Radio by pressing **OK**.
- Press ∧/∨ until the arrow in the display marks ”Disk Naming”.
- Press **OK**. “Change name” or “Clear name” will appear in the display.
- Press ∧/∨ until the arrow marks “Clear name”.
- Press **OK**.

The display will show a list of all the CD names, even those of CDs which are not currently loaded in the magazine.

<u>To clear one name:</u>

- Press ∧/∨ to select the CD whose name you want to clear.
- Press **OK** briefly and the name of the CD will be cleared.

<u>To clear all of the names:</u>

- Press **OK** for longer than 1 second. “CLEAR ALL NAMES?” will appear in the display.

Press **CL** to return to the previous menu without deleting any of the names.
If you press **OK**, all!! of the CD names will be deleted.

If you want to quit this function,

- Press **SRC** to quit the DSC menu.

MIX

CD tracks can be played in random order.
If ”MIX” is illuminated in the display, all of the tracks on a CD will be played in random order.

Following this, the next CD will be selected at random and played, etc.

Switch MIX on/off:

- press **MIX/✱** briefly.

PaX (PAC) memory

In radio or telephone mode, the PaX memory allows you to access **one** certain function which has been programmed previously. In radio mode, you can store the functions

– Learn card or

– Radiotext on/off and activate them with **PaX** (PAC):

- Press **PaX** or **PAC** briefly.

Select the function

- Press **PaX** or **PAC** for approx. 1 second.

A list of all the available functions will appear in the display.

- Press ∧/∨ to select the function and press **OK** to confirm your selection.

The car radio is equipped with DSC (**D**irect **S**oftware **C**ontrol), enabling you to adjust settings and functions to your personal needs and to store these settings.
The equipment has been adjusted to default settings at the factory.
There is an overview of the factory default settings at the end of this section so that you can reset these settings at any time.

If you wish to alter any programming

- Press **DSC/OK**.
  Two menu items will appear in the display: Setup and Radio.

Select:

Press ∧/∨ to select the menu item you wish to alter and press **OK** to confirm your selection.

Alter:

Press **<< / >>** to alter the setting as shown in the display.

Cancel:

- Press **CL**. The new setting will not be saved.

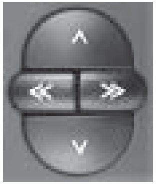
Store:

- Press **DSC/OK**.

Exit DSC:

- Press **SRC**.

To reprogram important DSC menu items you must first enter an access code (refer to the DSC menu item ”Change access code”).



∧/∨ Select function
<< / >> Alter setting

DSC menu – Setup

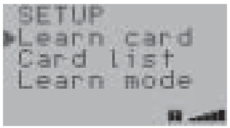
(basic equipment settings)

- Press ∧/∨ to select “Setup”.



- Press **OK**.

A maximum of four menu items will appear in the display. Press ∧/∨ to select the menu item you wish to alter.



Language
KeyCard LED
Beep
Keytones
Vario Colour
Brightness
Angle
Ignit. timer
Change code
User mode
Reset

Learn card

This menu will not appear unless a KeyCard or the Master SIM card has been inserted. You can train a second KeyCard or up to 30 SIM cards.
Refer to the information in the section on “KeyCards and SIM cards – Training KeyCards/SIM cards”.

Card list

It is possible to display a list containing all of the valid SIM cards. You can delete individual entries if you wish. You must use a KeyCard to delete the Master SIM card.

WARNING!
If an entry is deleted, it is no longer possible to operate the equipment using the corresponding card.
After pressing **OK** you must enter the access code. The entries can be viewed by pressing ∧/∨.
After **OK** ”Change name”, “Clear” will appear in the display.
Press ∧/∨ to choose between Clear and Change name.
Press **CL** to cancel the process, press **OK** to confirm the process.
If you want to enter/change names, please refer to ”Telephone book menu – Add entry”.
It is not possible to clear the card inserted in the set.

Learn mode

With this function you can determine whether additional cards can be programmed using the DSC menu only or each time the currently valid KeyCard or the Master SIM card has been removed as well.
MENU –
Cards can only be programmed with the help of the DSC menu.
MENU PLUS –
Additional simple method of programming cards:
Remove the KeyCard or Master SIM card and insert another card within 15 seconds.
This programming process can be repeated with other cards.

Language

The display texts are available in several different languages.
If “AUTOMATIC” has been selected, English will be the language used for the display texts when the KeyCard has been inserted.
If a SIM card is used, the language selected on the card will be the language which appears in the display as long as it is available in the unit.

KeyCard LED

You can choose between LED ON or LED OFF. If you select LED ON, the KeyCard tongue will flash as an additional anti-theft device when the unit has been switched off and the KeyCard removed.

BEEP

Confirmation beep following functions which require you to press the button for longer than 1 second.
Set volume from 0 to 9 (0 = off).

Keytones

After a key is pressed, a short beep is emitted as confirmation.
Set volume from 0 to 9 (0 = off).

Vario Colour

Adjusts the colour of the display illumination to the dashboard illumination.
green ...."......................... red

Brightness

Adjusts the brightness of the display illumination, available separately for day (D) and night (N).

Angle

Adjusts the angle of the display to your personal preference.

Ignition timer

Use this setting to allow the car radio to play for a maximum of 90 minutes after the ignition has been switched off.
0 = ignition timer switched off.

Change code

The access to important DSC menu items (for telephone operation as well) is protected with a security code.
At the factory, this code is set to ”0000”.
If you would like to alter it **be sure to make a note of the new code!**
Enter the original code (in this case ”0000”) and press **OK**.
Enter the new code, press **OK**. Enter the new code once again, press **OK**.

User mode

If you select this menu item, you will be required to enter the access code after you press **OK**. Enter the access code and press **OK**.

You can choose between the following user modes:
- Standard
- Radio only

Any changes made will not take effect until you have quit the menu.

Reset

If you select this menu item, you will be required to enter the access code after you press **OK**. Enter the access code and press **OK**. Press **CL** to cancel the process, or confirm by pressing **OK**.
Three selections will appear in the display:
- Radio
- Phone
- SIM card.

If you select “Radio” or “Phone”, **all** of the settings altered in the DSC menu including the telephone menu will be reset to the factory default settings.
All of the trained KeyCards and SIM cards will also be deleted, with the exception of the KeyCard currently in the unit.
If you select “SIM card”, **all** of the data stored on the SIM card will be deleted.

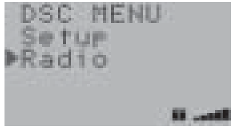
Overview of the DSC default settings (Setup)

Learn card	–
Card list	–
Learn mode	Menu Plus*
Language	Automatic
KeyCard LED	On
Beep	4
Key tones	Off
Vario Colour	green
Brightness	D approx. 90 % N approx. 60 %
Angle	Middle
Ignition timer	00 min.
Change code	0000
User mode	Standard
Reset	–

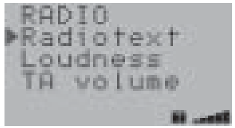
* MENU PLUS = basic settings
The system will reset to MENU after having programmed the first SIM card.

DSC MENU – Radio

- Press ∧/∨ to select “Radio”.



- Press **OK**.



Volume FIX
Sensitivity
Aux
Read KeyCard
Music/Speech

A maximum of four menu items will appear in the display. Press ∧/∨ to select the menu item you wish to alter.

Radiotext

This is an RDS function which transmits text from the radio station selected.
Radiotext appears in lines 2, 3 and 4. If the Radiotext is longer than 36 characters, the display will switch back and forth from page 1 to page 2 every 5 seconds.

Off	–	switched off
On	–	switched on
On/Eng. off	–	switched on only when the ignition is switched off.

Loudness

Boosts low frequencies for more bass, especially at low volume.
LOUD 1 - minimum boost
LOUD 6 - maximum boost

TA volume

For the adjustment of the volume for traffic announcements and the beep tone.
Traffic announcements will be broadcast at this volume if the standard volume is set to a lower level.
If the standard volume level is louder than TA volume, the traffic announcements will be broadcast somewhat louder than the standard volume.

VOLUME FIX

Allows you to set the volume at which the unit switches on.
Use **<< / >>** to set the desired volume. If ”Last Volume” is selected, the car radio will switch on at the volume level which was last set before it was switched off. “Last Volume” can be activated after “Level +01".

Sensitivity

You can adjust the search sensitivity to three different levels: high, mid-range, low.
Press **<<** / **>>** to alter the setting.
DX: for distant reception
LO: for local reception

AUXILIARY SOURCE

This menu item will not appear if a CD changer has been connected to the system. The default setting is ”OFF”.
If an external piece of equipment is connected to the system, this setting must be switched to ”ON”.

Read KeyCard

This menu item will appear only if a KeyCard is inserted.
It is possible to read out the data on a KeyCard.
Using the KeyCard included with the delivery, it is possible to display the equipment data such as name, type number (76 ...) and serial number.
If you remove the KeyCard while it is being read, ”CHANGE CARD” will appear in the display. You can read out the data on any number of other KeyCards, including those belonging to other equipment. You can no longer operate the system except to switch it off.
As soon as you have inserted a KeyCard belonging to this unit once again, you can press **OK** to return to the radio mode.

Music/Speech

In future, different RDS radio stations will differentiate between music and speech programs.
The tone setting for speech programs ranges between ”LEVEL 1 ... 4”.

Off	–	Music/speech is switched off.
LEVEL 1	–	Linear (no bass, treble, loudness adjustment)
LEVEL 2-4	–	Different settings for volume, bass and treble with loudness switched off.

Test the settings to find out which one you prefer.

Save settings / end DSC programming:

- Press **DSC/OK** and **CL** one after the other.

Overview of the DSC default settings (Radio)

Radiotext	Off
Loudness	LEVEL 3
TA Volume	LEVEL +30
Volume FIX	LEVEL +20
Sensitivity	DX: High
	LO: High
Aux	Off
Music/Speech	Off

ENGLSH

Radio


NDR1 NDS
FM19
AF lo
TP TA
ABC
DEF
PQRS
TUV
WXYZ

General information

Using the Radiophone, you can make the same telephone calls as you can with a cellular phone.

Important:
You must be located in an area serviced by the GSM radio network and have the access privileges provided by a valid SIM card. This SIM card must be inserted into the unit (refer to the section on ”KeyCards and SIM cards” if necessary).

! **Emergency calls**

The number to dial to place an emergency call in the GSM network anywhere in the world is 112.

You can place an emergency call by dialling this number even without inserting a SIM or KeyCard.
Please read the information in the section on ”Telephone operation – GSM emergency calls”.

PIN code

(Personal Identification Number)

Normally, the SIM card will not operate the telephone until a personal identification number (PIN code) has been entered. This PIN code is included with the SIM card when you purchase it.
You can alter or even deactivate your PIN code. Refer to ”Programming with DSC – PIN CODE”.

Insert the SIM card/enter your PIN code

- Switch the unit on.
  With the card tongue protruding, insert the trained **SIM card** into the slot **with the contact surface facing up**.

”ENTER PIN” will appear in the display.

- Enter the PIN code using the number keys, starting with the first digit.
- Press **OK** or **#**.

If the PIN code has been entered correctly, “CODE OK” will appear in the display followed by the menu which was used last.
If an incorrect PIN code has been entered, “WRONG PIN CODE” will appear in the display followed by “ENTER PIN”.

If the PIN code is entered incorrectly three times in succession, it is necessary to use the PUK code (Personal Unblock code) to reactivate the card.

Reactivating the SIM card

The PUK code must be used to reactivate the SIM card.

The display shows “ENTER PUK”.

- Enter your code and press **OK** to confirm.
- Enter a new PIN code.

IMPORTANT!

Be sure to make a note of the new PIN code!

- Confirm your entry by pressing **OK** and repeat the entry.

Make your first telephone call

When the telephone is ready to operate, an antenna symbol will appear in the display (must not flash).
A trained SIM card must be inserted in the unit correctly. If the equipment is not currently in the telephone mode

- press briefly.

The network operator will appear in the display (e.g. D1, D2).

- Dial the number you wish to call using the number keys.

After you have entered the telephone number correctly,

- press briefly.

The telephone will now place the call automatically.
To end your telephone call:

- Press briefly.

Note:
If you press by mistake when the display shows the network operator, a list will appear in the display.
This list contains the last numbers dialled using this KeyCard (a maximum of 10). Press **CL** to return to the previous display.

GSM emergency calls

The **emergency number** in the GSM network is **112** anywhere in the world.
By dialling **112** you can place an emergency call, regardless of whether or not you have inserted a SIM or KeyCard.
Any barring codes entered in the system will not affect the **112** number. It is possible to place an emergency call as long as the antenna symbol is flashing and the signal is strong enough.

To place the call:

- Switch the set on, insert the KeyCard or SIM card. If you do not enter a card, you must complete the following operating steps within the next 4 seconds. Otherwise the unit will switch off.
- Press .
- Dial **112** and press .

“Emergency call” will appear in the display, and the call will be placed.

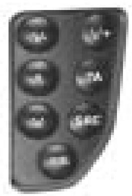
! Do not use the emergency call number unless there really is an emergency.

When placing an emergency call, be sure to supply all the necessary information as accurately as possible. Remember that your mobile telephone may be the only means of communication at the scene of an accident. Do not hang up until you are told to do so.

Quick telephone reference

① **On/Off**
The set must be switched on before it is possible to use the telephone.
Volume
Adjusts the volume while using the “hands-free” function
Adjusts the TA volume while using the “hands-free” function
Adjusts the volume of the current ring tone.
Adjusts the volume of the handset for handset operation (optional)

<u>Remote control</u>



The functions described under “Volume” can be altered by pressing **V- / V+**.

② **ØI** / **AUD**
If this button is pressed while the telephone is in use, the microphone will be muted. This makes it possible to conduct a conversation in your vehicle without the party on the telephone being able to listen.

③ **SRC** (**S**ou**rc**e)
Press **SRC** briefly: The telephone functions will end and the set will automatically switch back to the audio mode used last (radio, Aux or optional CD changer).

The telephone mode has priority. It is not possible to switch to an audio mode if you are already talking on the telephone or trying to place a call.

If you press **SRC** briefly while the telephone is ringing: the caller will receive the information that the party he is calling is unavailable (D1) or that the line is busy (D2).
Press **SRC** for approx. 1 second: busy signal.

④ **TA** (**T**raffic **A**nnouncement = Priority for traffic announcements)
To switch off the priority for traffic announcements during a telephone call:
Press **TA** during the telephone call.

⑤ **TS / BND**
To switch from handset operation to the hands-free function (uses the microphone and car speakers):
Press **BND** and return the handset to its cradle.

⑥ **SMS** (**S**hort **M**essage **S**ervice)
Use this button to directly access any new messages received. If there is more than one message, a selection list will appear in the display.
Press **SMS** briefly.

⑦ **PaX** oder **PAC** (Personal Access)
Use this button to directly access a certain function which has been programmed previously.
Press the button briefly.
A list of the functions you can select directly will appear in the display:
Press the button for approx. 1 second.
Press ∧/∨ to select the function and press **OK** to save your selection.

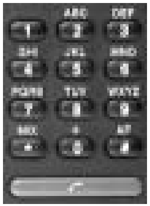
⑧ **Selection buttons**
To enter a telephone number:
Press the corresponding keys briefly.

To use one-touch dialling to call one of the first nine phone book numbers stored in the set:

Press the corresponding key for approx. 2 seconds.

To use one-touch-dialling to call one of the first nine phone book numbers stored on the SIM card:
Press ✱, then press the corresponding key for approx. 2 seconds.

To enter names, refer to the section on "How to enter a name/text".



To answer a call: Press one of the buttons on the right side of the set.

⑨ **AF / #**
Enters special characters

⑩ **+ / 0**
Enters the telephone number.
To set the current foreign country code automatically, press **0** for longer than 1 second. "+" will appear in the display.

⑪ ☎
Switches to the telephone mode,
Answers/ends telephone calls,
To start dialling:
Press ☎ briefly.

To switch off the telephone, e.g. in areas where there is danger of explosion:
Press ☎ for approx. 2 seconds.
"TELEPHONE OFF" will appear in the display.

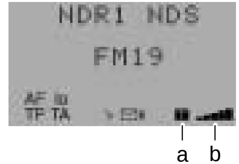
To switch back to the telephone mode:
Press ☎ briefly.

To display a list of the last ten telephone calls made:
Press ☎ briefly, when the network operator symbol (e.g. D1, D2) appears in the display.

⑫ **MIX/✱**
Enters special characters, such as blank spaces,
Activates speed-dialling for the numbers stored on the SIM card.

⑬ **Displays**

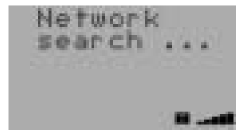
Radio menu



SIM card operation

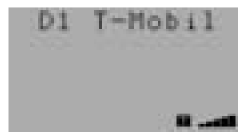


GSM network search ...



Basic telephone menu

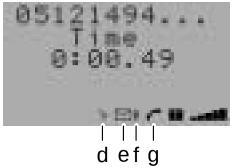
The phone has logged into the network indicated.



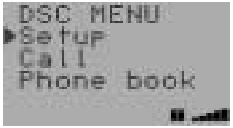
ENGLISH

Telephone

Display during a telephone call



DSC menu during telephone mode



a) (antenna symbol) - Indicates connection to home network

(inverted antenna symbol) - Indicates connection to a roaming network

If the antenna symbol is flashing, the telephone user has not got access privileges to the network currently available. Only emergency calls can be placed.

b) (signal bars) - Indicates signal strength, shows how good the connection to the radio network is

c) * - Appears when the code is entered. One asterisk appears for each digit.

d) (forwarding symbol) - Indicates that call forwarding has been activated

e) (envelope symbol) - Indicates that new SMS messages have been stored

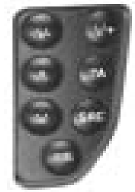
f) (voice message symbol) - Appears as an additional indication that a voice message has been received

g) (handset symbol) - Indicates that a telephone call is in progress or being placed

⑭ **Anti-theft card protection system**
In order to be able to operate the telephone, you must insert a trained SIM card first.
Using a KeyCard, you can place emergency calls only.
Using a trained SIM card, it is possible to operate all of the telephone's available functions, including the telephone mode.
The SIM card also performs the anti-theft functions.

⑮ **Rocker switch**
∧ / ∨
Scrolls through the speed-dial directory in the telephone book
Selects the SMS entries
Selects the menu items in the telephone book and DSC menu
Displays SMS messages
Moves the cursor to the next line when data is being entered.

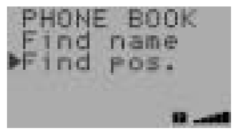
Remote control:



To select a telephone number from the speed-dial list: Press **ME** first.

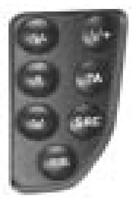
<< / >>
Edits the menu items in the telephone book and the DSC menu
Allows you to scroll through entries which require more space than available in the display
Moves the cursor to the left and right when data is being entered

⑯ **ME**
Allows you to locate telephone book entries quickly, sorted by name or position. Press (handset symbol) to dial the number automatically.
Refer to the section on "Dial telephone number", "... from the telephone book".



Quick telephone reference

Remote control:



To display the telephone-book menu in alphabetical order: Press **ME** briefly.
To display the telephone-book menu in the numerical order of the entries:
Press **ME** for approx. 2 seconds.
Press ∧ / ∨ to make your selection and 📞 to start dialling.
To quit this function press **CL** on the set.

⑰ **CL** (**CL**EAR)

Entry mode

To delete the last digit entered: Press **CL** briefly.
To delete the entry in the display:
Press **CL** for approx. 1 second.

Menu prompting

To return to next higher level:
Press **CL** briefly.
To quit the menu:
Press **CL** for longer than 1 second.

⑱ **DSC/OK**
To activate the “setup” menu, the “call” menu or the “telephone book” menu:
Press **OK** briefly.



To activate a menu item:
Press **OK** briefly.

To store settings:
Press **OK** briefly.

To store altered parameters:
Press **OK** briefly.

To return to the previous menu:
Press **CL**.

To quit the DSC menu:
Press **SRC**.

ENGLSH

Telephone

All of the telephone functions can be operated using a trained SIM card.

- With the card tongue protruding, insert the trained **SIM card** into the **slot with the contact surface facing up**.
- Switch the unit on.

If you have not yet trained a SIM card, refer to “Train or delete KeyCards/SIM cards”.

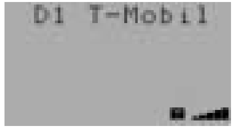
GSM network service area

To be able to use the telephone, you must be located in an area served by the GSM network. As soon as a network signal is received, the symbol indicating the signal strength and an antenna symbol will appear in the display. If the signal is not strong enough your call may be disconnected. If the antenna symbol is flashing, it is possible to make emergency calls only. If the antenna is displayed on a dark background, you are located in an area serviced by a roaming network (may be subject to additional charges).

Switch to telephone mode

It is possible to switch to the telephone mode from any of the audio modes.

- Press .

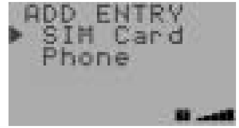


The display will indicate the network and the network operator if a network signal is received. The antenna symbol will not flash.

Save telephone numbers and names

You can save up to 25 telephone numbers and names (entries) in the telephone memory bank.
The number of entries you can save on the SIM card depends on the type of card you use.
If you would like to save an entry, press the following keys one after the other:

- Press **ME** on the set for approx. 1 second.



- Press ∧/∨ to choose the entry position, for example:
  “SIM card” or “Phone” and press **OK**.
- Enter the new telephone number and press **OK**.
- Use the selection buttons to enter the name. If necessary, refer to the section on “How to enter a name/text”. Press **OK** to confirm your entry.
- Enter the entry position and press **OK**.

If you do not enter a position, the entry will be stored at the next available position.
If there is a number already stored at the position entered, “Overwrite ?” will appear in the display.
Press **OK** to overwrite the entry (the previous entry will be deleted).

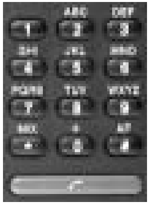
Add the next entry:

- Press **OK**.

Dial a telephone number

The telephone mode must be switched on.

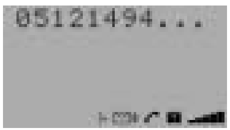
Always use the area code for the number you are dialling, even if it is a local number.



Manual dialling

- Dial the number using the number keys.

The number you enter will appear in the display.



Correct the number

To delete a digit:

- Select the digit you wish to correct using the rocker switch **<< / >>** (digit will flash).
- Press **CL** briefly and enter the correct digit.

To delete an entire number:

- Press **CL** for approx. 1 second.

To start dialling/end call:

- Press or **CL**.

... from the list of parties called last

It is possible to display a list of the last ten parties called using the SIM card.
You can call these numbers again without having to enter them.

- Press when the network operator (e.g. D1, D2) appears in the display.

A list of the last ten calls will appear in the display.

- Press ∧/∨ to select the party you wish to call and press twice.

The call will be placed automatically.

Note
If you want to call a party whose number differs only slightly from one on the list:

- Press ∧/∨ to select a party from the list and press **OK**.

The telephone number will appear in the display.

- Press **<< / >>** to select the digit you want to alter (it will flash).
- Press **CL** briefly and enter the correct digit.
- Press .

The call will be placed automatically.

Using the speed-dial . . .

You can recall telephone numbers from the memory with the corresponding name or the number of the entry.
The numbers which can be recalled in the telephone’s memory bank range from 1 to 25, on the SIM card from 101 to a maximum of 225.
It is possible to use one-touch dialling for the first nine telephone numbers in the basic telephone menu by pressing the corresponding number key directly.

. . . directly from the phone memory bank:

- Press the corresponding key (1 to 9) for approx. 2 seconds until you hear a beep.

The call will be placed automatically.

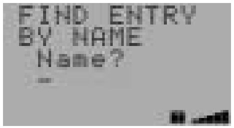
. . . directly from the SIM card memory bank:

- Press * and the corresponding key (1 to 9) for approx. 2 seconds until you hear a beep.

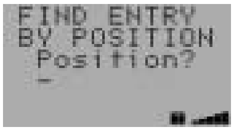
The call will be placed automatically.

. . . from the telephone book

- Press **ME**.
- Use ∧/∨ to select “Find name” or “Find pos”.
- Confirm your selection by pressing **OK**.



- Use the selection buttons to enter up to the first three letters in the name.



- Use the selection buttons to enter the position number of the entry.
- Confirm your entry by pressing **OK**.

The desired telephone number will appear in the display.
If you want a different number to the one shown in the display, you can press ∧/∨ to scroll through the entries in the telephone book.

To start dialling/end call:

- Press ☎.

. . . by remote control

If you press **ME** briefly on the remote control unit, the alphabetically sorted speed-dial list will appear in the display.
If you press **ME** longer on the remote control unit, the speed-dial list will appear in the display sorted by position.

Redial function

Automatic

If the “Automatic redial” menu item in the setup menu is switched to “ON”, the number will be redialled automatically.
Refer to “Programming with DSC – Setup menu – Automatic redial”.
You can cancel the automatic redial by pressing the telephone key.

Manual

- Press ☎.

The last telephone numbers entered will appear in the display.

- Press ∧/∨ to select a number and press ☎.

The call will be placed automatically.

The display will change in colour to indicate that the telephone has begun to dial the number or that an incoming call has been detected.

Answer/end a call

If someone calls you, you will hear the telephone ring and “Accept ?” will appear in the display. If the calling line identification function has been switched on, the caller’s telephone number will also appear in the display.
If the caller’s number has been stored in the speed-dial directory, the caller’s name will be displayed as well.

To answer a call:

- Press one of the buttons on the right-hand side of the set.

To refuse a call:

- Press **SRC** or **CL**.

The caller will hear a busy signal.
To end a call:

- Press ☎ or **CL**.

Call waiting (2nd caller)

While using the telephone you can hear a signal indicating that a second party is trying to call you.
If you would like to take advantage of “call waiting”, you may have to order this service from your network operator and activate it.

How it works

You are still talking on the telephone to the first party. You hear the call waiting signal.

To refuse the call:

- Press **CL**.

To answer the waiting call:

- Press **OK**.

The first party will be put on hold (cannot join in on the second call).
Also refer to broker's call/hold or conference calls.

Broker's call/hold

While you are talking on the telephone to one party, it is possible to call a second party. The party you are currently talking to must be put on hold first.
During a broker's call, you are able to talk to only one of these two parties at any one time, while the second party is on hold.

Activate the hold function

You are talking to the first party.

- Enter the telephone number of the second party and start dialling by pressing .

The first party will be put on hold and can hear a melody on the line (depending on the network provider).

As soon as the second party answers, the second call will be active.

Broker's call

Switches between the first and second call

- Press **ME**.

While you are talking on the telephone to one party, it is also possible to answer another call. You will hear the call waiting signal.

To refuse the call:

- Press **CL**.

To answer a call from a third party:

- Press **OK**.

This will end the call with the party to whom you are currently talking.
To end the active call:

- Press **CL** or .

To end both calls at once:

- Press **CL** for longer than 1 second.

Conference calls

During a conference call, you can talk to several parties at the same time.
While talking to one party you can place a call to a second party.

Setting up a conference call

You are already talking to the first party. A second party is waiting on hold.

- Press **OK**
  to activate the conference call. Now all three parties can talk to each other on the same line.

While you are talking on the telephone to these two parties, it is also possible to answer a call from another party. You will hear the call waiting signal.

To refuse the call:

- Press **CL**.

To answer a call from another party:

- Press **OK**.
  The previous parties will be put on hold.

Press **ME** to switch back and forth between the conference call and the single caller.

To end the active call:

- Press **CL** or .

To end all calls at once:

- Press **CL** for longer than 1 second.

International calls

The services provided by your network operator allow you to place mobile phone calls in your own country.
Using the international GSM standard it is possible to place phone calls to parties in many countries of the world (either mobile or stationary).
In order to do this, the network operators concerned must have made a roaming agreement. Your network operator must also activate international roaming for your SIM card.
Your network operator can provide you with a currently valid list of the network operators (network code and name) and the different rates which apply.

Note:
If you want to make international calls, be sure to contact your network operator well ahead of time.

What to do before leaving for a foreign country

1. Have your network operator activate your SIM card for roaming.
2. Take a look at the list of networks. In many areas you can choose from among several different network operators.
   You need the network code and the network name.
   The foreign network operators must be registered. Refer to Programming with DSC – Calls
   “Network selection” in the directions for using the telephone.
3. Activate call forwarding from the stationary telephone (at home, at the office) to the Radiophone, if applicable.

How to place telephone calls in foreign countries

Dial the country access code for the country you are calling, the city area code without the first “0” and then the telephone number. You can replace the first two digits of the country access code with “+” (press “0” for approx. 1 second).

Example:

Country access code:	0049	Germany
City area code:	05121	Hildesheim
Teleph. number:	49	Blaupunkt
You enter:	+49512149	

Tip:
Enter the country access code for all of the telephone numbers you save in the memory.

How to receive calls

Callers from your home country merely dial the usual number for your mobile phone.
Callers who are not located in your home country dial the country access code for your home country, even if you are currently located in another country.

How to place calls to a stationary telephone in the host country

Dial the city area code and the party’s telephone number.
You needn’t dial the country access code because your Radiophone has registered in the foreign network.

PaX (PAC) memory

The PaX memory allows you to directly access **one** certain function which was previously saved in radio or telephone mode. In radio mode you can save the functions

- learn card or
- Radiotext on/off and activate them with **PaX** (PAC).

In telephone mode you can save the functions

- certain number
- call mailbox
- send SMS

– available networks
– call forwarding
– telephone book/find entry by name

- Press **PaX** or **PAC** briefly.

Select the function:

- Press **PaX** or **PAC** for approx. 1 second.

A list of the functions you can select directly will appear in the display.

- Press ∧/∨ to select the function and press **OK** to confirm your selection.

Make telephone calls using the handset (accessory)

During normal operation, you can make telephone calls using the microphone and car speakers (hands-free function). You can also make calls using a handset (accessory).
You can answer/end calls by removing/replacing the handset.
To switch from hands-free to handset operation:

- Pick up the handset.

To switch from handset operation to the hands-free function:

- Press **BND** and replace the handset on its cradle.

⚠ There is a relatively strong magnet in the handset.
Keep everything which could react adversely to magnetic fields well away from the handset. This includes diskettes, check cards, etc. Important data may be lost.

Programming with DSC

Thanks to DSC (**D**irect **S**oftware **C**ontrol), it is possible to adapt several of the Radiophone settings and functions to your own personal needs and to save these alterations.

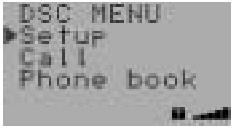
The Radiophone has been set at the factory.

In the following you will find an overview of the default settings, so that you can reset the unit to these basic settings if necessary.

You cannot activate the DSC menu unless you are in the telephone mode.

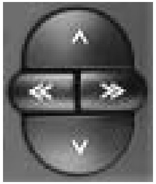
To access the DSC menu

- press **DSC/OK** briefly.



Select:

Press ∧/∨ on the rocker switch to select the menu item you wish to alter and press **OK** to confirm your selection.



∧/∨ Select function
<< / >> Adjust setting

Adjust:

Press **<< / >>** to adjust the setting in the display and press **OK** to confirm your change.

Cancel:

- Press **CL** and any changes made will not be saved.

Save/confirm:

- Press **OK**.

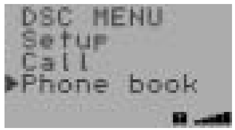
End DSC:

- Press **CL**.

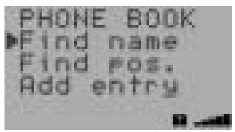
Phone book menu

The phone book menu can be used to save, alter, delete and easily retrieve saved telephone numbers.
The entries are saved in the telephone memory bank or on the SIM card and can be retrieved for speed-dialling.
The telephone can save up to 25 entries.
The number of entries which can be saved on the SIM card depends on the type of card used.
Access the phone book menu as follows:

- Press ∧/∨ to select “phone book”.



- Press **OK**.



Access
Capacity
My number

A maximum of four menu items will appear in the display. Use ∧/∨ to select any of the menu items.

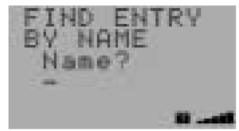
Return to the phone book (from any menu item):

- Press **CL**.

How to enter a name/text

Using the numbers keys you can enter names or texts in various menus.
You cannot make an entry unless a specific request that you do so appears in the display.
Names can have a maximum of 16 and texts for short messages a maximum of 160 characters.

Start the entry



- Press the key for the first character as often as necessary.

Enter all of the characters for a new name.

Enter letters/characters

Example “O” = press key 6 three times.

The keys are sequence keys, i.e. press the keys repeatedly to call up the letters allocated to this key.
You can use these keys to enter the following characters:

1 1 (blank) . , ! ? : ’ " ( ) % &
2 A B C 2 Ä à
3 D E 3 F É
4 G H I 4 ì
5 J K L 5
6 M N O 6 Ñ ö ò
7 P Q R S 7 ß
8 T U V 8 ü ù
9 W X Y Z 9
0 0 + - x * / = > < # @

Capital and small letters

You can choose between capital and small letters.

To switch:

- Press the key for the letter you wish to select for approx. 1 second.

All of the following letters will appear in the format selected. Switch back if desired.

Move the cursor in the input text box

If you press different keys to enter the letters one after the other, the flashing cursor will automatically move forward.
If you have to press the same key to enter different letters you must first move the cursor by pressing **>>**.
To make any necessary corrections move the cursor by pressing **<<** / **>>**.

Insert characters

You can insert characters as follows:

- Select the position for the new letter by pressing **<<** / **>>**. The character will be inserted in front of the flashing cursor.
- Press the key for the character you wish to insert.

Delete characters

You can delete individual characters or a complete entry.

To delete characters:

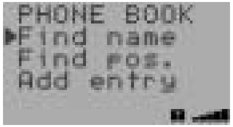
- Press **<<** / **>>** to select the character you wish to delete (it will flash).
- Press **CL** briefly.

To delete an entry:

- Press **CL** for approx. 1 second.

Find an entry by name

- Press ∧/∨ to select “Find name” and press **OK**.



- Enter up to three letters of the name and press **OK**.

A name with these first three letters or the closest name alphabetically in the list will appear in the display with the corresponding telephone number.

Important: The memory bank must already contain at least one entry.

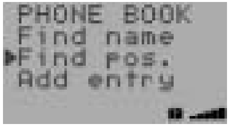
If necessary, press ∧/∨ to scroll through the list of entries forwards/backwards until you have found the name (and telephone number). Press **<<** / **>>** to view all of the data stored for the entry.

To dial the telephone number automatically:

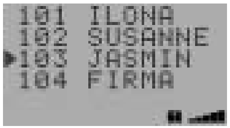
- Press ✆.

Find an entry by position

- Press ∧/∨ to select “Find pos.” and press **OK**.



- Enter the position number using the numbers keys and press **OK**.

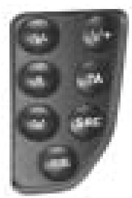


- Press ∧/∨ to select a different entry.

To dial the telephone number automatically:

- Press .

Select an entry by remote control:



Using the remote control you can activate the alphabetically or numerically sorted speed-dial directory in the telephone book directly.

For the alphabetically sorted list:

- Press **ME** briefly.

For the numerically sorted list:

- Press **ME** for approx. 1 second.

To scroll through the lists:

- Press ∧/∨.

To dial the telephone number automatically:

- Press .

Change, delete, move or copy an entry

- Find the name/entry as described above.
- Press **OK**.



Copy

- Select the function you wish to use by pressing ∧/∨ and then press **OK**.

Change:

You can alter the name and telephone number one after the other.

Delete:

- Press **OK** to confirm, **CL** to cancel.

Move:

You can move the entries to a different position in the list.
The arrow indicates the current position.

- Press ∧/∨ to select the new position and press **OK**.

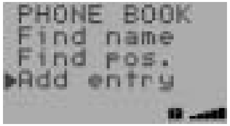
To copy:

You can copy entries from the SIM card, for example, into the telephone memory bank. The arrow indicates the current position, e.g. 210.

- Press ∧/∨ to select the new position, e.g. 023, and press **OK**.

Add entry

- Press ∧/∨ to select “Add entry” and press **OK**.



- Press ∧/∨ to select the memory bank for the entry, e.g.:
  “SIM card” or “Phone” and press **OK**.
- Enter the new telephone number and press **OK**.
- Use the numbers keys to enter the name and press **OK**.
- Enter the position and press **OK**.

If you do not enter a position the name and number will be saved at the next available position.
If you enter a position which already has a name and number allocated to it, “Overwrite?” will appear in the display.
Press **OK** to overwrite the previous entry (this entry will be deleted).

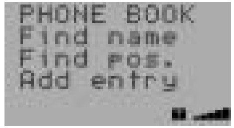
To add the next entry

- Press **OK**.

If you are not in this menu, you can add entries if you press **ME** for approx. 1 second. (Refer to “Save telephone numbers and names”.)

Access

- Press ∧/∨ to select “Access” and press **OK**.



▶Access

- Press ∧/∨ to select the memory bank, e.g.:
  “SIM card” or “Phone” and press **OK**.
- Press **OK** to confirm your selection.
- Enter your access code.

“Phone”

On – It is not possible to access the telephone numbers saved in the phone memory bank.

Off – All of the locks have been removed for the phone.

“SIM card”

On – It is not possible to access the telephone numbers saved on the SIM card

Off – All of the locks have been removed for the SIM card.

“All”

On – It is not possible to access the telephone numbers stored in the telephone memory bank or on the SIM card. It is not possible to store new telephone numbers.

Off – All of the locks have been switched off.

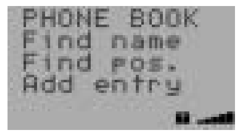
“No locks”

– No locks have been activated for the SIM card or the phone.

Capacity

Use this function to determine how much storage capacity is available on the SIM card and in the telephone memory bank.

- Press ∧/∨ to select “Capacity” and press **OK**.



Access
▶Capacity

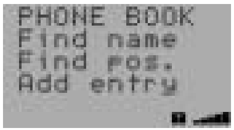
- Press ∧/∨ to select “SIM card” or “Phone “ and press **OK**.

“Free entries” in the display indicates the number of free entries still available in the memory bank.
If there are no entries available, “memory full” will appear in the display.

Show my phone number

You can display your own telephone number if it has been saved.

- Press ∧/∨ to select “Show my phone number” and press **OK**.



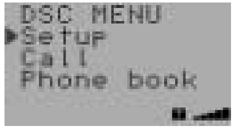
Access
Capacity
▶My number

If more than one number appears, press ∧/∨ to select the correct one.

Setup menu

Use this menu to alter the basic system settings.

- Press ∧/∨ to select “Setup”.



- Press **OK**.



Ring. tones
My number
AOC param.
Audib. timer
PIN-code
Ext. Alarm
TA/Call

A maximum of four menu items will appear in the display. Press ∧/∨ to select the menu item you wish to alter.

Return to the menu (from any menu item):

- Press **CL**.

Volume

The volume can be adjusted separately for the following functions.

- Press ∧/∨ to select “Volume” and press **OK**.



Ringing tone

Press **<<** / **>>** to adjust the volume of the ringing tone from between 0 and 9. 0 = off. If the automatic answer function is switched on, the volume cannot be set to “0”.

Hands-free (volume)

Press **<<** / **>>** to adjust the volume of the incoming call over the car speakers from 0 to 63.

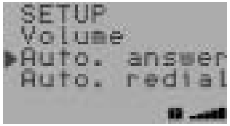
Handset (volume)

This menu item will not appear unless a Blaupunkt handset has been connected to the system.
Press **<<** / **>>** to adjust the volume of the handset from 1 to 10. Remove the handset from the cradle to check the setting.

Automatic answer

The telephone is able to answer incoming calls automatically.

- Press ∧/∨ to select “Auto. answer” and press **OK**.



- Press ∧/∨ to select the setting you want and press **OK**.

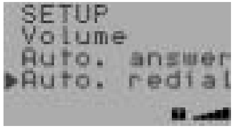
Off – The automatic answer function is switched off.

On – The automatic answer function is switched on. The call will be set to hands-free operation automatically. In this case, do not set the ringing tone volume to “0”.

Automatic redial

If the busy signal is received, an outgoing call can be redialled automatically.

- Press ∧/∨ to select “Auto. redial” and press **OK**.



- Press ∧/∨ to select the setting you want and press **OK**.

OFF – Redial is switched off

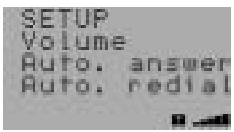
ON – Redial is switched on

The first redial call will be placed immediately. The following calls will be placed at preset intervals (network dependent). The number of times the telephone will attempt to redial depends on the network operator. You can stop the automatic redial function by pressing the telephone button.

Ringing tone

You can select the ringing tone separately for the following functions.

- Press ∧/∨ to select “Ring. tone” and press **OK**.



▶ Ring. tones

Ringing tone

Press ∧/∨ to choose from “Standard, Smooth, Rising (ringing tone gets louder with each ring), Off”.
“Off” corresponds to “Ringing tone volume = 0”.

SMS tone

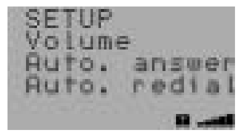
If a message has been received by SMS or voice mail, the equipment can be set to emit a beep at a preset beep volume.

On – beep is emitted after a message has been received

Off – beep is switched off

My number

A maximum of three of your own phone numbers and the phone number of your mailbox can be entered here.
The mailbox number is required to be able to call it directly from the call menu.



Ring. tones
▶ My number

Press ∧/∨ to select the position for your own phone number.
Press **OK** and enter your own phone number and press **OK** again. Enter a name if desired and press **OK**. The number will be saved in the memory.
Press **OK**, press ∧/∨ to select the next position, etc.

AOC parameters (**A**dvice **o**f **C**harge)

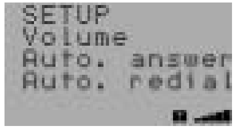
This function depends on the features the SIM card includes.

If AOC is not supported by the card, “Charge parameters” will appear as a menu item in its place.

The charge rates are determined by the network operator.

You can use this menu item to set the charges and a credit balance. As soon as the credit balance has been exhausted, it will not be possible to use the telephone until the credit balance is replenished by an authorised person.

Note:
If your network operator does not support AOC, the time interval will be set to one minute. The value selected will be used for making calculations.



Ring. tones
My number
▶ AOC param.

- Press ∧/∨ to select “AOC param.” and press **OK**.

You will be required to enter the “PIN2 code” or the “Access code”.

After this, you can enter a charge per unit and a credit balance.

Use the numbers keys to alter the amount and the type of currency.

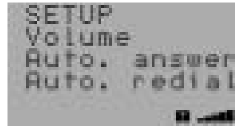
Press **CL** to quit the menu item.

The alteration will be transferred to the SIM card.

Note: If the credit balance is set to “0.00”, the credit balance function is deactivated.

Audible call timer

You can set an audible beep which is emitted after a preset call time has elapsed.



Ring. tones
My number
AOC param.
▶ Audib. timer

- Press ∧/∨ to select “Audib. timer” and press **OK**.

Press ∧/∨ to set the beep to Off or the timer to between 15 ... 300 seconds.

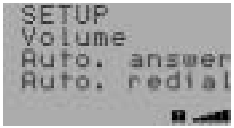
Use the numbers keys to alter the time interval. You can select from 15 to 300 seconds. The cursor will flash on the last character of the interval selected.

After you have pressed **OK**, “Audible call timer” will appear in the display. You can select the next menu item.

PIN-code

Switches on/off and alters the PIN code.

- Press ∧/∨ to select "PIN code" and press **OK**.



Ring. tones
My number
AOC param.
Audib. timer
▶ PIN-code

Press **OK** to switch between Off, On, Change. An arrow will indicate the setting selected last.

- Press ∧/∨ to select the desired setting and press **OK**.

You must enter the PIN code and press **OK** to confirm your entry.

IMPORTANT!
If the PIN code is entered incorrectly three times in succession, the SIM card will be deactivated. It can only be reactivated after the master PIN (PUK) has been entered. Your service provider has more detailed information.

Off – The set can be operated without a PIN code.

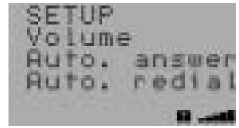
On – Each time the SIM card is inserted, the PIN code must be entered.

Change – You must enter the currently valid PIN code, then enter the new PIN code (twice).

The "Off" menu item cannot be selected unless the SIM card allows this.

External alarm

You can activate an external alarm, e.g. the horn, flashing lights, to indicate that the telephone is ringing when you are outside of the vehicle.



Ring. tones
My number
AOC param.
Audib. timer
PIN-code
▶ Ext. Alarm

The following conditions must be fulfilled:

You must press ∧/∨ to switch the "External alarm" function to "On".

The set must be switched off with the ignition and switched on again with the On/off button.

The alarm will be activated five times when an incoming call is detected.
To protect the car battery, the set will switch off automatically after one hour.
This function can be switched on again for one hour by pressing the on/off button on the set.

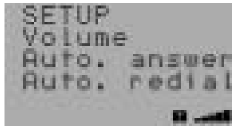
Refer to the installation instructions for information on connections and accessories.

Important: external alarm!
It is against the law to activate the audible external alarm in Germany.
Find out what the regulations are regarding this in your own country.

TA (Traffic Announcement) during a telephone call

It is possible to have a **t**raffic **a**nnouncement (**TA**) broadcast while you are using the telephone.

- Press ∧/∨ to select “TA/Call” and press **OK**.



Ring. tones
My number
AOC param.
Audib. timer
PIN-code
Ext. Alarm
▶ TA/Call

The setting already selected will appear in the display.

- Press ∧/∨ to select the desired setting and press **OK**.

On – **TA** is switched on

Off – **TA** is switched off during a call

If you have selected “On”, you can decide whether you want the traffic announcement emitted via the left-hand or right-hand speaker (channel).

Quit the menu

Press **CL** to return to the previous menu. If necessary,

- press **CL** as often as required.

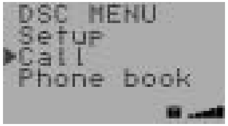
Overview of the factory default settings in the Setup menu

Volume	–
Ringing tone	4
Hands-free	35
Handset	5
Auto Answer	Off
Auto Redial	Off
Ringing tones	
Ring. tone	Standard
Messages	On
My number	–
AOC parameters	–
Audible call timer	Off
PIN-code	–
External alarm	Off
TA/Call	On
TA channel	Left

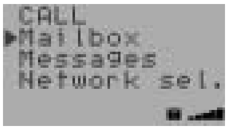
Call menu

Use this menu to select the settings for network operation.

- Press ∧/∨ to select “Call”.



- Press **OK**.



Call meters
Forwarding
Barring
Phone lock
User group

A maximum of four menu items will appear in the display. Press ∧/∨ to select the menu item you wish to alter.

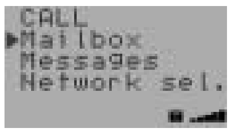
To return to the Menu (from any menu item):

- Press **CL**.

Call mailbox

The mailbox (also called a mobile box) can be compared to an answering machine. You can record a greeting text for your callers. The texts saved in the mailbox are categorised as old and new messages and can be retrieved as such (depending on your network operator).
Before you set up your mailbox, ask your network operator about the mailbox telephone number and other mailbox information. You can, for example, access your mailbox from a regular stationary telephone. In order to use the mailbox, you must activate the call forwarding function to forward calls to the mailbox number. If you have not yet stored the mailbox number you will be required to enter a telephone number when you activate the mailbox function.

- Press ∧/∨ to select “Mailbox” and press **OK**.



Your phone will be connected with the mailbox automatically. Contact your service provider for all other information required to set up your mailbox.

SMS messages

You can send and receive individual text messages via the Short Message Service (SMS). To be able to send messages, you must enter the service number of your network operator. Refer to “Parameters” in this section.

- Press ∧/∨ to select “Messages” and press **OK**.



You can read new messages you receive in “Input”.

You can send messages in “Output”.

You can file messages in “Storage”.

When a message is received, the telephone will try to store it on the SIM card. As soon as the storage capacity on the SIM card has been exhausted, the ✉ symbol will flash in the display. One or more messages must be deleted before new messages can be received.

Read new messages

- Press ∧/∨ to select “Input” and press **OK**.

If there is more than one message, press ∧/∨ to select the message you want to read and press **OK**.
Press ∧/∨ to move through the message line by line forwards or backwards. Press **<< / >>** to move to the left or right in the message.

After you have finished reading

- Press **CL**.

“CLEAR MESSAGE ?” will appear in the display.
Select “Yes” to delete the message, select “No” to save the message in “Storage”.

<u>Calling the sender or another telephone</u>

If you would like to call whoever sent the message,

- press while the message is on display.

The telephone will automatically call the corresponding number. If the message contains a telephone number in “quotation marks”, the call will be made to that number. If there are several different telephone numbers in quotation marks, the call will be made to the first one.

Sending SMS messages

- Press ∧/∨ to select “Output” and press **OK**.



For a completely new message, select “New”. Under “Patterns” you can select prepared texts. With “Edit” you can alter one of the messages saved in Storage.

- Press ∧/∨ to select the desired function and press **OK**.

Now you can begin to enter your message. If necessary, read the information in the section on “How to enter a name/text”.

- Press **OK** once you have completed your message.

“Number:” will appear in the display.

- Enter the recipient’s number and press **OK**.
- Press ∧/∨ to select “Send”, “Store” or “Both” and press **OK**.

The transmission report will appear briefly in the display.

Read/clear stored messages

- Press ∧/∨ to select “Storage” and press **OK**.

If there are several different messages, press ∧/∨ to select the message you want and press **OK**.

When you have finished reading,

- press **CL**.

“CLEAR MESSAGE ?” will appear in the display.
Select “Yes” to delete the message, select “No” to save the message in the “Storage”.

Broadcast

Cell Broadcast is a short message service which is transmitted in numbered “channels”.
The channels send different special messages.
Contact your service provider for more detailed information and a list of the available channels.
When Broadcast is set to “On”, you must enter the number of the channel from which you are expecting information after pressing **OK**.

Parameters

- Press ∧/∨ to select the function desired and press **OK**.

“VALIDITY”:
Here you can determine for how long your network operator should try to send a message. The standard value is one day.
Use the numbers keys to set the value from 1 to 7.

After you have selected the setting

- press **OK**.

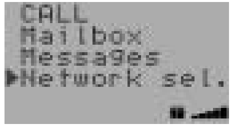
“Service no.”
The network operator’s service number must be entered in your set before you can send a message.
If you send a message, it will be sent to the service number provided by the network operator and forwarded from there to the recipient.
Contact your network operator to receive the service number and enter it here.

Service no.:

Network selection

In areas which are served by more than one network (e.g. in foreign countries), it is possible to select the network you wish to use.

- Press ∧/∨ to select “Network sel.” and press **OK**.



Under “Available” you can view a list of the networks currently available.

Under “Search method” you can select between automatic and manual network searches.

Under “Pref. list” you can edit the priority list of preferred network operators.

- Press ∧/∨ to make your selection and press **OK**.

Available networks

- Press ∧/∨ to select “Available” and press **OK**.

After a short waiting period a list of the available network operators will appear in the display, e.g.



Press ∧/∨ to select another network and press **OK** to confirm your selection.
“Registering in the list” will appear in the display. Press **CL** to cancel, press **OK** to confirm your selection.

Search method

- Press ∧/∨ to select “Search method” and press **OK**.

Automatic	–	The home network is always the first choice. If you are located in an area which is not served by your home network, the telephone will automatically register with the next available network. The networks will be selected according to their priority in the networks list.
Manual	–	You can select your own network in a manual search.

Press ∧/∨ to select the search method, press **OK** to confirm.
An arrow will indicate the current selection.
The antenna symbol indicates which network the telephone is registered in.

- – Connected with home network
- – Connected with roaming network

If the antenna symbol is flashing, you do not have access privileges to the network currently connected.
You can place emergency calls only.

Preferred networks

- Press ∧/∨ to select “Pref. list” and press **OK**.
- Press ∧/∨ to make your selection and press **OK**.



List

“Add”:

– known networks (“Known”)
Press ∧/∨ to select the desired network from the list of network operators and press **OK**. Enter priority **1** for the network which is most important for you. Select the networks which you are interested in using and determine their priorities.

– new network (“New”)
You can add a new network operator to your preferred list (you will require the operator’s network code).

“Move”:

You can move (sort) the entries on the priority list.

- Press **OK** to confirm “Move” as your selection.

The position on the priority list, the name and the network code of the network operator will appear in the display. If you want to move the entry,

- press **OK**.
- Press ∧/∨ to move the entry to a new position on the list and press **OK**.

“Delete”:

You can delete a network operator you no longer require from the priority list.

- Press **OK** to confirm “Delete” as your selection.
- Press ∧/∨ to select the network operator you want to delete.

Press **OK** to delete the network operator from the list, press **CL** to cancel the operation.

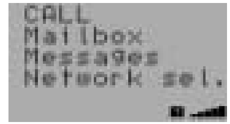
“List”:

Press ∧/∨ to display the priority list.
Press **OK** to quit the menu.

Call meters

The telephone is equipped with an internal meter which allows you to display the charges or call time for individual calls and the total number of calls.
The default setting displays the call time.

- Press ∧/∨ to select “Call meters” and press **OK**.



▶Call meters

- Press ∧/∨ to make your selection and press **OK**:

“Last call”

Time and charge for the last call will appear in the display.

“All calls”

Total call time and charges will appear in the display.

“Rest credit”

If a credit sum has been entered, the remaining credit amount will appear in the display.

"Reset"

The timer for the time and charges is set to zero. You must enter the access code to do a reset.

"During call"

You can select whether or not you want the call timer and charges displayed during calls.

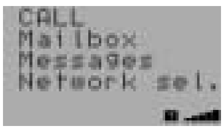
Call forwarding

(with a practical example)

You can forward incoming calls to another telephone number. Select the type of call forwarding you want to activate to "All calls", "If busy ", "If no answer" and "Unreachable".

The set also distinguishes between incoming calls, faxes or PC data. You can activate call forwarding separately for each of these three possibilities.

- Press ∧/∨ to select "Call forwarding" and press **OK**.



Call meters
▶Forwarding

The call forwarding options will appear in the display.

In which situation should a call be forwarded?

"All calls"

Every incoming call will be forwarded immediately.

"If busy"

The call will only be forwarded if the line is busy (speech, data or fax).

"If no answer"

The call will be forwarded if you do not answer it.

"Unreachable"

The call will be forwarded if the Radiophone is switched off or you are not located in an area serviced by GSM.

"Clear all"

All call forwarding functions will be deactivated.

- Press ∧/∨ to select the type of call forwarding and press **OK**.

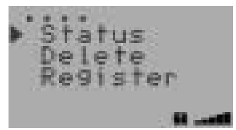
Forward calls, PC data, faxes

The Radiophone can distinguish between speech (incoming call), data (PC) or fax for each call forwarding.
Select "Speech" to forward all incoming calls.
Select "Data" to forward all PC data to a computer connected to the telephone network.
Select "Fax" to forward written information to a selected fax machine.
Select "All services" to forward all calls for speech, data and fax to another number.

- Press ∧/∨ to make your selection and press **OK**.

Enter data for call forwarding

Each type of call forwarding has the same processing list for speech, data and fax:



Activate
Deactivate

– “Status”
Press ∧/∨ to display the current selection: “not registered” if call forwarding has not been activated or “registered” (plus call forwarding number) if call forwarding has been activated.

– “Clear”
Call forwarding will be deleted immediately.

– “Register”
Enter the call forwarding number here and press **OK** to confirm your selection.
Call forwarding will be registered.

– “Activate”
Call forwarding will be switched on.

– ”Deactivate”
Call forwarding will be switched off.

- Press ∧/∨ to make your selection and press **OK**.

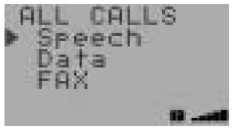
A practical example of call forwarding

Select the type of call forwarding you want to use and whether it will apply to speech, data or faxes.
All call forwarding can be activated in the same way.

Example:

Forward all calls.

- Press ∧/∨ to select “All calls” and press **OK**.



All service(s)

“Speech”

- Press ∧/∨ to select “Speech” and press **OK**.



Activate
Deactivate

- Press ∧/∨ to select “Register” and press **OK**.
- Enter the number you wish to forward all calls to (press **CL** to correct if necessary) and press **OK** again.

After a short waiting period you will see the following display:



- Press ∧/∨ to display the call forwarding number to check it.
- Press **OK**.
- Press ∧/∨ to select “Activate” and press **OK**.

You have activated the call forwarding function. All incoming calls will be automatically forwarded to the number entered.

Call barring

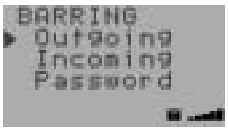
It is possible to block incoming/outgoing calls. You will require a password from your network operator in order to set up call barring.

- Press ∧/∨ to select “Barring” and press **OK**.



Call meters
Forwarding
▶Barring

The display will indicate the different types of call barring.



Change “password”

You can change the password you received for call barring from your network operator. This password is only for the use of the network services and should not be confused with the access code for the set.
If you change the password, **make sure to make a note of the new one!**

- Enter the old code and press **OK**.
- Enter the new code and press **OK**. Enter the new code again and press **OK**.

Bar “outgoing” calls:

“All calls”

No calls can be made from the Radiophone. You can still use the emergency number.

“Internation.(al)”

No calls can be made outside of the country, domestic calls only.

“Internation. except home”

No calls can be made outside of the country. If you are in a foreign country, you can place calls to your home country.

Bar “incoming” calls:

“All calls”

You cannot receive any calls.

“Internation. except home”

If you are in a foreign country, you can receive calls made from your home country only.

- Press ∧/∨ to make your selection and press **OK**.

Bar calls, PC data, faxes

The Radiophone can distinguish between speech (incoming call), data (PC) or fax for each call barring.
Select “Speech” to bar all incoming calls.
Select “Data” to bar all PC data.
Select “Fax” to bar faxes.
Select “All services” to bar all calls for speech, data and fax.

- Press ∧/∨ to make your selection and press **OK**.

Enter data for call barring

Each type of call barring has the same processing list for speech, data and fax:



– “Status”

Press ∧/∨ to display the current selection: “not registered” if call barring has not been activated or “registered” if call barring has been activated.

– “Activate”

- Enter the password and press **OK**. Call barring will be switched on.

– ”Deactivate”

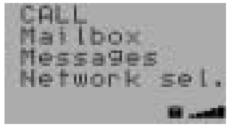
- Enter the password and press **OK**. Call barring will be switched off.

- Press ∧/∨ to make your selection and press **OK**.

Phone lock

You can prevent your telephone from being used by unauthorised persons. If necessary,

- Press ∧/∨ to select “Phone lock” and press **OK**.



Call meters
Forwarding
Barring
▶Phone lock

“All” (dialling not possible)

Only emergency calls can be made

“Off” (no restrictions)

All locks are switched off.

“One-touch only”

You can only call the one-touch dialling telephone numbers stored on keys 1 to 9 and the SIM card.

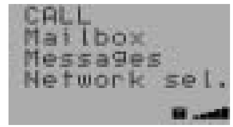
“Speed/one-touch only”

All of the telephone numbers stored (in the phone and on the SIM card) can be dialled.

- Press ∧/∨ to make your selection and press **OK**.
- Enter your access code and press **OK**.
- Press ∧/∨ to switch the function on/off and press **OK**.

User group

This is a special feature which you can order from your network operator.
Using it, it is possible to limit the use of the telephone to a certain group of users.



Call meters
Forwarding
Barring
Phone lock
▶User group

Important!

Do not alter any of these settings unless this function has been activated by your network operator.
Otherwise, this could cause malfunctioning.

Specifications

Amplifier

Output power:	4 x 23 W RMS acc. to DIN 45 324 at 14.4 V 4 x 35 W max. power

Tuner

Wavebands:	
FM	87,5 – 108 MHz
MW	531 – 1602 kHz
LW	153 – 279 kHz
FM sensitivity:	0.9 µV at 26 dB signal/noise ratio.
FM transmission range:	30 - 16 000 Hz

Telephone

Standard:	GSM
Frequency band:	
Send	890 – 915 MHz
Receive	935 – 960 MHz
Transmission power:	Class 4 / 2 W
Sensitivity:	-108 dBm
Impedance:	
Antenna connection	50 Ohm
Hands-free microphone	660 Ohm

Subject to technical modification!

Glossary

Access code

Barred functions can be operated after the access code has been entered.

Adapter card

Holder for small SIM cards. With the help of an adapter card, it is possible to use small SIM cards in
equipment which was otherwise designed for use with standard-sized SIM cards.

AF – **A**lternative **F**requency

This function enables the equipment to automatically select the best available frequency for the reception of an RDS programme.

Amplifier

Amplifies the output power.

AOC parameter - **A**dvice **o**f **C**harge

List of charges in which a charge per unit and a credit balance can be entered.

AUD – **Aud**io

Tone adjustments for bass and treble, fader (front and rear) and balance (left and right).

BND (**B**a**nd**)

Switches between wavebands and memory levels.

Broker's call

It is possible to make a second call without ending the first one. You can then switch from one call to the other.
You can also answer a call from a second party without ending the call to the first.

Call waiting

A quiet beep during a telephone call informs you that someone is trying to reach you.

Cell Broadcast

Cell Broadcast is a short message service which operates in numbered "channels".
The channels transmit different special messages.
Request more detailed information and a list of the available channels from your network operator.

Changer

CD changer (accessory)

CL – **Cl**ear (delete)

Returns to previous menu.

DSC – **D**irect **S**oftware **C**ontrol

With the help of DSC you can adjust the basic factory settings and functions to your personal needs and to store these settings.

EON – **E**nhanced **O**ther **N**etworks

EON is an RDS service which makes it possible to exchange station information within a station network chain. The radio will, for example, automatically switch from a non TA station to a TA station in the same radio network in order to broadcast a traffic announcement. After the traffic announcement has been broadcast, the radio will switch back to the previous network once again.

GSM network - **G**lobal **S**ystem for **M**obile Communication

European cellular telephone standard available world-wide

Handset

Telephone receiver complete with cradle (accessory).

IMEI - **I**nternational **M**obile **E**quipment **I**dentity

International identity for mobile equipment. The IMEI code entered at the factory includes the serial number, manufacturer and country code. You can find this code in the car radio pass.

KeyCard

Theft protection system from Blaupunkt. The equipment cannot be operated without the corresponding KeyCard.
SIM cards (telephone cards) or a second KeyCard can only be trained using the original KeyCard.

Mailbox

Electronic mailbox provided by network operators for spoken messages. The mailbox can be compared to an answering machine.

ME – **Me**mory

Retrieves stored data, such as radio stations, telephone numbers.

MIX

CDs/CD tracks are played in random order.

MUTE

Switches audio off

PAC (PaX) – **P**ersonal **Ac**cess

Allows direct access to a function in radio or CD mode which was previously stored.

PIN code - **P**ersonal **I**dentification **N**umber

PIN 1
Prevents your SIM card from being used by unauthorised persons. You must enter the PIN code each time you insert the SIM card.

PIN 2
Code required for special functions.
If you have authorisation for the use of special functions with your card, you need a PIN 2-code.

Both codes come with the SIM card and can be altered.

PUK - Personal Unblock code

Eight-digit unblock code which can reactivate the SIM card. This becomes necessary if the PIN code for the SIM card has been entered incorrectly three times.
The PUK code comes with the SIM card and cannot be altered. Make sure you keep it in a safe place.

Radiotext

Additional RDS information provided by the station, for example, on the program broadcast.

RDS – **R**adio **D**ata **S**ystem

Service provided by radio stations for more convenient radio listening pleasure.
The station name appears in the display, for example, rather than the frequency.

Other RDS functions include:

AF – Alternative Frequency
EON – Enhanced Other Networks
Radiotext
TA – Traffic Announcement
TP – Traffic Program

Roaming

Making telephone calls in foreign countries with your own telephone or your own SIM card using a different network operator.

Scrolling

Moves you through a directory.

SIM card - **S**ubscriber **I**dentification **M**odule

For radio and telephone operation. The SIM card used here is in credit-card format. It is also possible to use the small SIM card (plug-in card) with an adapter card.
The SIM card contains all of the data required to identify the subscriber, to allocate the telephone number and the personal phone book.
Using your SIM card it is also possible to make telephone calls with a cellular phone.

SMS - **S**hort **M**essage **S**ervice

Using this function it is possible to send other subscribers messages up to 160 characters in length, even if the recipient's cellular phone is not switched on or a call cannot be put through at the present time.
The text is stored in the network until the recipient retrieves it or the time allowed by the sender expires.

Speed-dial

This function allows you to dial telephone numbers at the touch of a button.

SRC – **S**ou**rc**e

Switches audio source between radio and CD changer.

TA – **T**raffic **A**nnouncement (priority for traffic messages)

"TA" in the display indicates the traffic announcement priority is switched on.

TP – **T**raffic **P**rogram

"TP" in the display indicates that the radio is currently receiving a radio station which broadcasts traffic information.

TS – **T**ravel**s**tore

Automatically stores the radio stations with the strongest reception signals, can be retrieved by pressing the station preset buttons. Very useful on trips.

User group

It is possible to limit the use of the telephone to a certain group of users. Your network operator can provide more detailed information.

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3/98 PfTs

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